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CHEMIST AND DRUGGIST
RETAILER - WHOLESALER - MANUFACTURER

JULY 31, 1948

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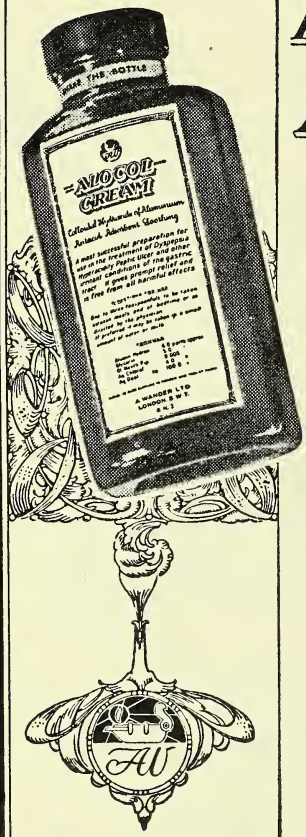

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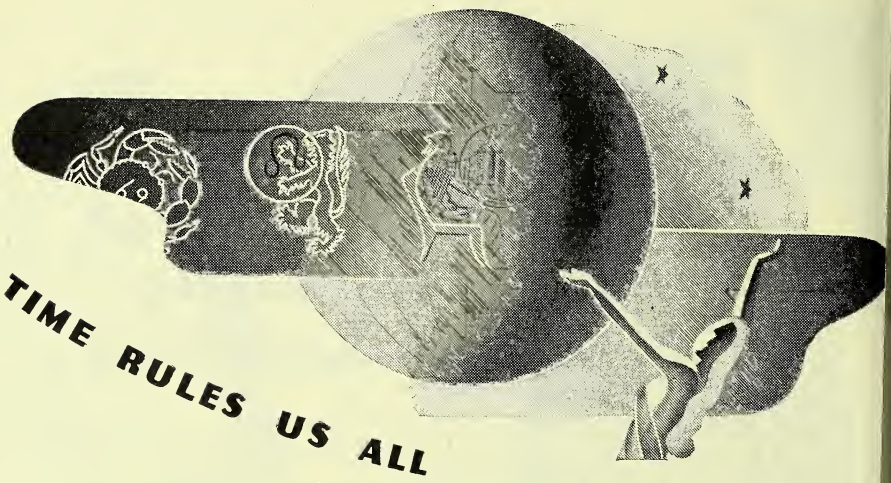

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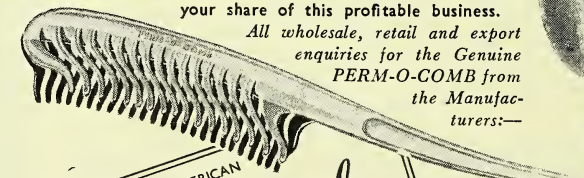

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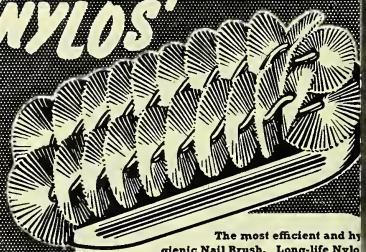

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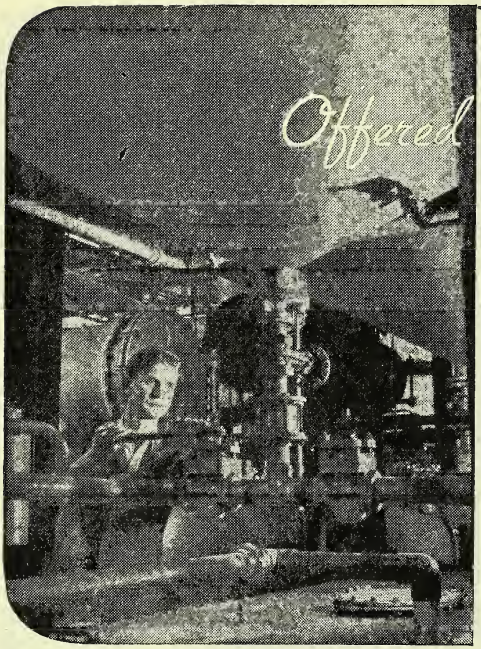

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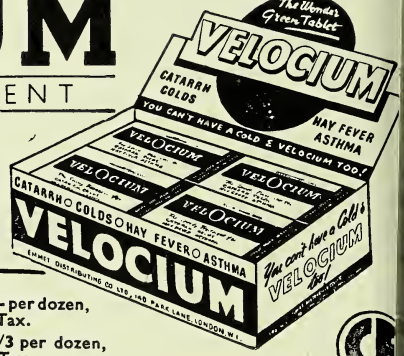

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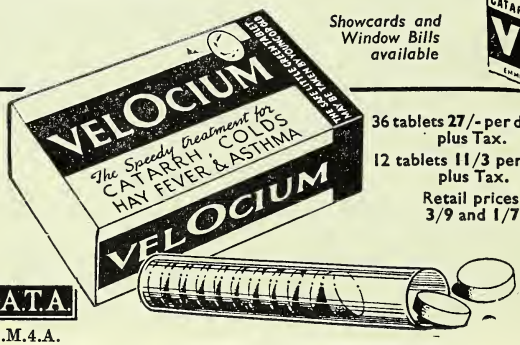

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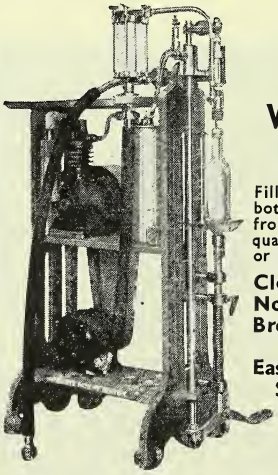

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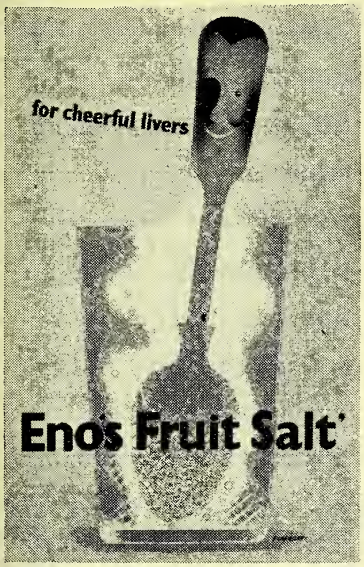

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J. C. ENO LTD WATFORD HERTS

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YEAST
TABLETS

Each ounce contains a natural Vitamin B potency equivalent to that of 25 mgm. Aneurin Hydrochloride, 1·4 mgm. of Riboflavin, and 8·0 mgm. Nicotinic Acid.
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EDINBURGH.

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The VITAMIN
MALT FOOD
Sole Manufacturers
With Vitamins (A. 6,500 I.U., D. 400 I.U. per fl. oz.
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We manufacture all kinds of:-
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In Stainless Steel—Nickel Plated and Chromium over Nickel
Our order books are full for some time ahead, and immediate deliveries cannot be promised. We shall, however, welcome your enquiries for forward deliveries.
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,, ,,	(large)	1/3	8/5
Eucryl Denture Powder	(small)	9d.	5/3
,, ,, ,,	(large)	1/3	8/5
Eucryl Toothpaste		1/3	8/5
Euoryl Dental Plate Fixative	(small)	1/- No.P.T.	8/5
,, ,, ,, ,,	(large)	2/6 ,, ,,	21/-
OTHER LINES			
A.S.K. (Antiseptic Skin Cream)		2/9	18/-
A.R.O. (Anti-rheumatic Ointment)		2/9	18/-
Lysol Disinfectant	(4-ozs.)	—	5/9
,, ,,	(8-ozs.)	—	9/9
,, ,,	(1 Gal.)	—	10/9
LUCE'S PERFUMERY			
Luce's Eau-de-Cologne, and Luce's Lavender Water	(1-oz.)	3/4	16/-
	(2-ozs.)	5/10	28/-
	(4-ozs.)	10/10	52/-
Luce's Flower Perfumes Gardenia, Jersey Lily, Lilac, Jersey Heather, Violet, Oregon	(½-oz.)	4/2	20/-
	(1-oz.)	7/6	36/-
	(2-ozs.)	12/6	60/-
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We regret that the following minimum parcels have become necessary owing to the extreme shortage of packing materials and increased carriage :—

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LUCE'S PERFUMERY :—	Orders over £2 net. } No min. if added to
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1/- PROFIT *for you*

ON EVERY 3/10 SIZE

CARTERS LITTLE LIVER PILLS

YOU'LL find no difficulty in selling the customer a large-size Carters—you have only to tell him he saves 10d. and gets 5 extra pills. Investigations show that one out of every three customers will buy the large-size Carters Little Liver Pills when it is offered. Supplies are readily available. Send your order now and stop losing easy profits!

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F.2B.

Here's a winner!

This eye-catching outer contains 6 boxes at 3/6 each, 1 box at 6/6 (including purchase tax). Total cost to you 18/4.

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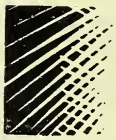
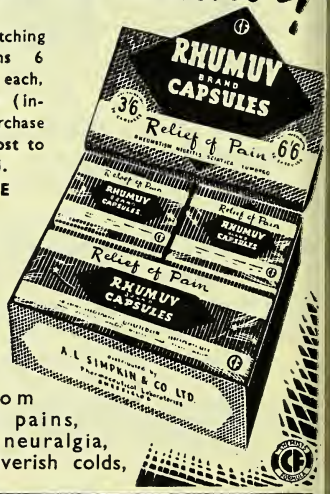
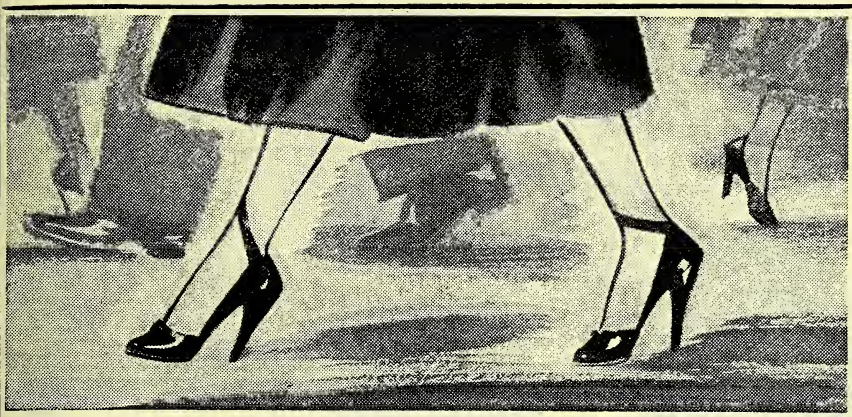




Relief rom rheumatic pains, headaches, neuralgia, influenza, feverish colds,

Simpkins of Sheffield



Corns are coming into fashion again!

High-heeled, close-fitting shoes, essential for wearers of the "New Look" long skirts, may bring an increase of foot troubles amongst your feminine customers. They'll be looking for 'Freezone' Corn Remover — so help them to speedy relief by putting the handy 'Freezone' display unit on your counter.

Remember, every 'Freezone' bottle you sell brings you at least 4½d. profit—on the most favourable terms your profit is as much as 6⅙d. per bottle! 'Freezone' Corn Remover retails at 1/10½. Trade Price 13/6 per doz. P.T. 4/6 per doz.

'Freezone' can be included with other I.C.C. lines to qualify for Co-operation Discounts of 12½% on orders of £10 and over, 10% on orders of £5 and over.

Be ready to sell more

Freezone *Trade Mark* **Corn Remover**

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CHENIES STREET, LONDON, W.C.1

Heléna puffs

The world's finest Puffs, made by the world's leading Puff manufacturers. All sizes — 60 designs — in Swansdown, Lambskin, Lamb's-wool, Beaver and Velour. Hygienically made, most attractively packed and *nationally advertised.*

Please apply to your local Wholesaler for details.

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NEW SOUTHGATE, N.11

The line you've been waiting for!

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DIGESTIVE GUM PASTILLES

Something Entirely NEW
—and OFF POINTS

ORDER NOW!

There is sure to be a big demand for these pastilles. In **6d. cartons** packed in three-dozen display outers, and in 5lb. tins
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Potter's

Catarrh Pastilles

Reminder :
Potter's Asthma Remedy
RETAIL 2/5
WHOLE-SALE 18/-
Plus tax 6/-
per doz.

Revised "Budget" Prices

P.A.T.A.

RETAIL
1/4½ each
WHOLESALE
9/- per doz.
plus tax 3/-

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—in a new eye-catching carton

Brighten your counter, and your balance sheet, with one of Virginia's most successful and popular preparations. Virginia's Hollywood Eyelash Grower actually encourages healthy and luxuriant growth, producing longer, darker, more lustrous lashes. The attractive counter carton carries two dozen dainty handbag-size containers at the rapid-selling price of 2/6 each (including Purchase Tax).

Send for details and prices of Virginia's full range of Beauty Preparations: Wonder Mask, Vanishing Cream (Peach), Cleansing Cream, Skin Tonic, Complexion Milk, Cream Rouge, Lipstick, Face Powder, Eye Shadow, etc.

Virginia's BEAUTY PREPARATIONS

VIRGINIA'S HOLLYWOOD PREPARATIONS (1936) LTD., IPSWICH RD., SLOUGH, BUCKS

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FEMEX No. 1 (12s)	-	2/-
FEMEX No. 2 (12s)	-	2/6
FEMEX No. 3 (12s)	-	3/-
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LESS 25% TRADE DISCOUNT

LESS 2½% CASH DISCOUNT

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UNION WORKS, CASTLETON, ROCHDALE

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THE **Puck** *UNDER-CAP*

Ideal for swimming, or as a bath-cap, dust-cap, etc., the famous PUCK Under-cap is available for the first time since 1940! This popular line will be a best-seller when it reappears on your counter.

Each cap is packed in an individual carton with a window to display the colour; supplied in outers containing 4 dozen cartons, equally assorted —red, orange, yellow, and pale blue.

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CROWNER CARDS

NEW OUTERS

NEW SHOW-CARDS

BIG BONUS

NEW PACK

The 'Tabloid' Aspirin bonus gives you ***fourteen*** to the dozen on six-dozen assorted parcels; or ***thirteen*** to the dozen on three-dozen assorted parcels. In addition, to assist your sales, a striking new range of show material is now being issued. Retail prices of 'Tabloid' Aspirin, gr. 5, bottles of 25, 1/- plus 3d. tax; gr. 5, bottles of 100, 2/10d. plus 8½d. tax.

'Tabloid' BRAND Aspirin

BURROUGHS WELLCOME & CO. *(The Wellcome Foundation Ltd.)* LONDON

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P.A.T.A

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ESTABLISHED 1794

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Compound Ointment

Tissue-repair promoting Antiseptic

An ointment of proved value in staphylococcal infection, particularly good results are to be obtained in sycosis barbae, sycosis vulgaris and tinea sycosis. "Quinolor" possesses noteworthy qualities for promoting tissue repair and affords an excellent dressing for cutaneous affections and superficial lesions.

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An advance in coal tar therapy. Of particular value in eczema of all forms.

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Wide range of products for injection.

"Dr. JENNER'S ABSORBENT LOZENGES"

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Digestive Tablets

Famous for 150 years for indigestion.

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Laxative Pellets

Something more persuasive.

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JULY 31, 1948
Published weekly at 28 Essex Street, Strand, London, W.C.2
Telephone: Central 6565 (10 lines). Telegrams: "Chemicus, Estrand, London,"
ingle copies 1/- each. Annual subscription, which includes The Chemist and Druggist Diary and Year Book, 30/-

No. 3571 Volume CL

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NEWS OF THE WEEK

N.(W.)F. Amendments.—The amendments (mainly affecting dental preparations) announced recently by the Minister of Health in the National (War) Formulary (see *C. & D.*, July 3, p. 13) take effect on August 1.

D.D. Authorities Withdrawn.—Authorities granted by the Regulations under the Dangerous Drugs Act, 1920, to duly qualified medical practitioners, have been withdrawn from William Henry Armistead, M.B., Ch.B. (Edinburgh), Bonally, Paisley, Renfrews.

Chemicals for India.—The Export Promotion Department, Board of Trade, announces that Dalmia Cement, Ltd., Scindia House, New Delhi, India, require scientific equipment and chemicals. A copy of the schedule of goods required is available for inspection at the offices of THE CHEMIST AND DRUGGIST.

N.H.S. Rota Payments.—The Minister of Health has circulated to Executive Councils a statement that "No claim can be entertained in respect of hours of service not required specifically by the rota scheme, whether the service is given voluntarily or is needed to clear prescriptions received during the normal or rota service hours."

Anglo-American Production Council.—Sir Stafford Cripps (Chancellor of the Exchequer) announced in Paris on July 26 that an Anglo-American advisory council to improve the productivity of British industry was shortly to be set up. It would be composed of representatives of employers' and trade union organisations in Britain and the United States. The Chancellor said that the council would "no doubt help British industry in increasing publication of technical information."

British Standards Institution. — The annual meeting of the British Standards Institution was held in London recently. Lord McGowan (president) said the help of the Institution was being sought by many companies that had not previously been interested in export markets in giving information on the national standards of importing countries. Mr. R. Duncalfe (chairman of the finance committee) urged

industry to provide adequate finance for the work of the Institution.

Chemists-Opticians' Examinations. — The following candidates have been successful in examinations conducted recently by the Institute of Chemists-Opticians:—*Diploma in Ophthalmics:* F. J. C. Austin, Glasgow; J. T. Briggs, Carnforth, Lancs; J. J. McK. Brown, Neilston; H. Bush, Hull; J. S. Campbell, Airdrie; E. Clark, Dundee; H. Cohen, Newcastle-on-Tyne; V. Davidson, Bournemouth; A. Franklin, London; L. Freed, London; T. Gardner, Newcastle-on-Tyne; R. C. Gibb, Glasgow; A. A. Gordon, London; G. Gottheimer, London; I. McP. Gunn, Methil; N. W. Gunn, Methil; A. Kester, Nigeria; A. March, Glasgow; K. O. Odeinde, Nigeria; G. D. Paterson, Glasgow; J. Pirie, Glasgow; R. W. Johnston, Bolton; J. Reid, Bishopbriggs; H. Ross, Bristol; C. Rowe, Newcastle-on-Tyne; W. Scott. Glasgow; S. Sloane, Northern Ireland; W. Swart, Rushden; W. Tait, Workington; W. Welsh, Glasgow. *Certificate in Orthoptics:* A. W. Brambley, Banbury; R. T. Jackson, Worksop: W. R. Wingate, Havant. *Certificate in Ocular Therapeutics:* D. Angus, London; B. Baines, London; L. E. Braddick, London; W. G. Kelly, Hayes; C. B. Prosser, London.

LOCAL NEWS

Edinburgh Golf Results.—Results of a golf competition held by Edinburgh chemists recently over the Newbattle course for the Thornton Ross prize are: No. 1 Section:—1 (A tie) J. Finlay (3) 74, J. Ferguson (8) 74; scratch, J. Finlay 77; No. 2 Section:—1, J. H. Scott (15) 70; 2, J. A. Stenhouse (20) 72; 3, J. B. Grosset (24) 73.

London Chemists' Golf. — Winners in three competitions organised by the London Chemists' Golfing Society at Hampton Wick on July 22 were: *Medal* (President's prize, presented by Mr. F. E. Lever), T. G. Don (18), 72 net; *Bogey* (Thomson cup), G. T. Morson (12), all square; *Six "Hidden" Holes* (Li Lo air-bed, presented by P. B. Cow, Ltd.), Don Carter (scratch).

Manchester Outing. — The Manchester Branch of the Pharmaceutical Society and the local Pharmaceutical Association held an outing to Chester on July 21, at which the chief function was a match between the Manchester and Chester chemists' cricket teams. The visitors lost by a narrow margin. During the afternoon the Chester ladies entertained the Manchester party to tea, and in the evening the Chester team and the chairman of the Chester Branch (Mr. J. Williams) were the guests of their Manchester colleagues. The president of the Manchester Association, Mr. E. Cronin, welcomed the Chester chemists and their ladies. Professor H. Brindle (chairman of the Manchester Branch) moved a vote of thanks to the Chester ladies.

Bath N.P.U. Officers. — The following officers have been appointed to the Bath Branch of the National Pharmaceutical Union:—*Chairman,* Mr. A. H. Hale; *Vice-chairman,* Mr. C. H. James; *Treasurer,* Mr. J. H. Hopkins; *Secretary,* Mr. T. Swain, Stonecroft, Wellsway, Bath; *Assistant Secretary,* Mr. D. I. Tuddenham; *P.A.T.A. Secretary,* Mr. T. J. Cornish; *Executive Committee,* Mrs. Q. Shutter and Messrs. H. T. Doble, J. Gourdie, and A. Wilson.

Tunbridge Wells Visit. — Eighty-seven members and friends of the Tunbridge Wells Pharmaceutical Association visited Queen Victoria Hospital, East Grinstead on July 21. During the visit the chief pharmacist (Mr. F. H. Summers, M.P.S.) explained the nature of the pharmaceutical problems encountered in the day-to-day work of his department. Before returning the visitors were given a two-hour film show which included the films "Take Thou" (Evans Medical Supplies, Ltd.), "The Discovery of a Pigment" (Imperial Chemical Industries, Ltd.), and "New Faces for Old" (illustrating plastic surgery). A vote of thanks to the committee of management of the hospital, and to Mr. Summers for arranging the tour of the hospital, was moved by Mr. N. A. Nicholls (chairman of the Association).

IRISH NEWS

August Closing. — The offices of the Pharmaceutical Society of Ireland will be closed during the month of August.

Licence Examination Results. — The following candidates passed the July Licence examination of the Pharmaceutical Society of Ireland: J. Costello, P. A. Moran, Annie P. Moriarty (all with honours), Mary K. C. Cullen, P. J. Finnerty, P. J. Foley, J. J. Flynn, C. Greene, J. Maher, D. F. O'Hare, J. Roche, D. Sheahan, W. Smith, J. J. Staunton. There were fifty-seven candidates.

Gaelic Sports.—The Dublin Chemists' football and camogie clubs held their annual outing recently to Manorhamilton, co. Leitrim. The teams were welcomed

y a reception committee and were played o the football ground by a brass band. The ladies' camogie team was successful y three goals to nil and the football team eat a local side by three goals three points o one goal two points. Dinner and a eilidhe followed. The party included Lieutenant Seamus Fox, who organised the uting, Mr. Kevin Banks (captain, foot- all team), Miss Cora Gaffney (chairman, Camogie Club), Miss Peggy Fallon (chair- nan, Students' Representative Council), nd Mr. Gerry O'Connor (a member of he social committee). By winning a re- ent match with Westerns in the Loving Cup competition, the Gaelic football club ualified for the semi-final and secured etention of their senior status.

Irish Drug Association.—At the first uly meeting of the Committee of the Irish Drug Association members were advised ot to reduce prices for penicillin until ad- ised by the Association, and when pricing rescriptions to bear in mind recent wage ncreases, itemise expensive ingredients, nd to price above the standard rate pres- riptions that required more than the aver- ge time in dispensing. A recommendation as given to point out to medical practi- oners who made inquiries for streptomy- n that approval for its use must be ob- ained from the Medical Research Council. n approving an application, the M.R.C. ould notify to the Wholesale Drug ederation of Ireland the name of the che- ist nominated by the medical practitioner, ho would receive the required amount of reptomycin through the wholesale distri- utor selected by the Federation. Any reptomycin returned to a chemist by a edical practitioner should be immediately nt back to the wholesale distributor. The stributors are not guaranteeing accept- nce, but will try to credit the chemist with e cost of the streptomycin provided it is turned well within the stated expiry date. ayment for streptomycin is a matter be- veen the medical practitioner and the che- ist, and the Wholesale Drug Federation ill in no circumstances accept responsi- lity for payment. The address of the Medical Research Council is 85 Merrion quare, Dublin. Any further inquiries ould be addressed to R. J. Kidney & o., Incorporated Accountants, 12 College reen, Dublin. The following new mem- ers were elected: Messrs. P. J. Cahill, M.P.S.I., 36 Lower Camden Street, Dub- n; Dermot J. Duane, M.P.S.I., The Medical Hall, Kilbeggan, co. Westmeath; nd T. A. Falvey, M.P.S.I., 17 Bridge treet, Cork.

OVERSEAS NEWS

Guernsey Drug Imports. — In 1947, 569 tons of drugs and druggists' sundries were received in Guernsey, against 576 tons in 1946 and 358 tons in 1939.

Siam Shellac Production.—Annual production of refined shellac in Siam, an industry that has developed in that country since the war, has now reached an estimated total of 6,000 tons.

India-Pakistan Agreement. — Under a recently signed agreement, India is to supply Pakistan with goods including chemical and pharmaceutical products. Pakistan is to receive 2,000 tons of soap.

Brazil Wax Prices. — Minimum prices are fixed for carnauba wax under a Bill which was passed recently by the Brazilian Senate. Prices are the basis of 450 cruzeiros per 15 kilos, ex warehouse, plus f.o.b. charges and export tax, for fatty-grey material.

PHARMACEUTICAL COMMITTEE APPOINTMENTS

Doncaster. — *Chairman,* Mr. J. C. Walmsley; *Secretary,* Mr. T. G. Lockwood, 23 Beckett Road, Doncaster.

Birmingham. — *Chairman,* Mr. H. J. Callow; *Secretary,* Mr. D. J. Rushton, 1088 Stratford Road, Birmingham.

West Hartlepool. — *Chairman,* Mr. J. Wilson; *Secretary and Treasurer,* Mr. W. O. Richardson, 49 Duke Street, West Hartlepool.

Glamorgan. — *Chairman,* Mr. W. O. Davies; *Vice-chairman,* Mr. J. D. Morgan; *Secretary,* Mr. W. Parry Williams, 17 Cornerswell Road, Penarth, Glam.

Middlesex. — *Chairman,* Mr. A. R. Cross; *Vice-chairman,* Mr. T. B. Robinson; *Secretary,* Mr. J. Anderson Stewart, 21 Bloomsbury Square, London, W.C.1.

Bath.—*Chairman,* Mr. T. J. Cornish; *Vice-chairman,* Mr. A. H. Hale; *Secretary,* Mr. T. Swain, Stonecroft, Wellsway, Bath; *Assistant Secretary,* Mr. D. I. Tuddenham.

Somerset.—*Chairman,* Mr. W. Deacon; *Treasurer,* Mr. E. H. Rake; *Secretary,* Mr. H. M. Lovell, 38 St. James Street, Weston-super-Mare; *Assistant Secretary,* Mr. J. S. Clarke.

London.—*Chairman,* Mr. C. H. Foster; *Vice-chairman,* Mr. G. B. Barnard, and *Secretary,* Mr. G. A. Tocher, 233-36 Bank Chambers, 329 High Holborn, London, W.C.1.

COMPANY NEWS

Hays Pharmacy, Ltd. (P.C.).—Capital £5,000. To carry on the business of chemists and druggists, etc. First directors are not named. Solicitors: William C. Crocker, 22 Bentinck Street, London, W.1.

Edwin R. Cooper, Ltd. (P.C.).—Capital £5,000. To acquire the business of a wholesale and retail chemist and druggist carried on at 92 Jermyn Street, London, S.W.1. Edwin R. Cooper, M.P.S., and Beatrice M. Grant, directors.

Lanceton (London), Ltd. (P.C.). — Capital £300. To carry on the business of manufacturers of pharmaceutical and cosmetic products, etc. Frederick W. Ruse and Jan Gosiewski, directors. R.O.: 351 Goswell Road, London, E.C.1.

Langtons (Chemists), Ltd. (P.C.).—Capital £1,000. To carry on the business of manufacturing chemists and druggists, etc. Bernard S. Langton, M.P.S., 62 Upper Park Road, Broughton Park, director.

Watts Chemicals, Ltd. (P.C.).—Capital £10,000. To carry on the business of manufacturers of chemicals, drugs, medicines, etc. First directors are to be appointed. Solicitors: Buckeridge and Braune, 3 Clements Inn, W.C.2.

W. L. Darby, Ltd. (P.C.).—Capital £1,000. To carry on the business of chemists and druggists, etc. Walter L. Darby, M.P.S., and Robert Gregson, directors. R.O.: 102 Falcon Road, Battersea, London, S.W.11.

Bray Pharmacy, Ltd. (P.C.). — Registered in Dublin.—Capital £3,000. To carry on the business of chemists and druggists, etc. Joseph J. Connaughton and Mary B. Connaughton, directors, 9 Carlton Terrace, Novano Road, Bray, co. Wicklow.

Spa Brushes, Ltd. (P.C.).—Capital £100. To carry on the business of manufacturers of brushware, toilet requisites, etc. John Freeman and Samuel Freeman, directors. R.O.: Spa Brush Works, Chesham, Bucks.

Rhodes (Chemists), Ltd. (P.C.). — Capital £4,000. To carry on the business of chemists and druggists, etc. Mary Rhodes and Peter Gibson, directors. R.O.: 71 High Street, Uppermill, nr. Oldham.

F. Murphy (Chemists), Ltd. (P.C.).—Capital £100. To carry on the business of chemists and druggists, etc. Frederick M. Murphy and Marjorie A. Harmer, directors. R.O.: 100 Foxberry Road, Brockley, London, S.E.4.

N. G. Cole, Ltd. (P.C.).—Capital £6,000. To carry on the business of wholesale or retail chemists, etc. Sydney D. Steyn and Jennie Steyn, directors. R.O.: 9 Victoria Street, London, S.W.1.

Stotts Pharmacies, Ltd. (P.C.).—Capital £500. To carry on the business of wholesale or retail chemists, etc. Isidore D. Bernstein and Annie Bernstein, directors. R.O.: 8 Market Parade, Portland Road, London, S.E.25.

Zurka Perfumes, Ltd. (P.C.).—Capital £100. To carry on the business of manufacturers of, and dealers in, perfumes, etc. Edward Ross and Alice M. M. Ross, directors. R.O.: 14 Central Gardens, Central Road, Morden, Surrey.

James Cook (Chemists), Ltd. (P.C.).—Capital £2,000. To acquire the business of a dispensing chemist carried on at 46 St. Stephens Street, Norwich. James Cook, M.P.S., Mrs. Janet E. L. Cook, and James F. J. Cook, directors.

H. W. Kilby & Son, Ltd. (P.C.). — Capital £1,000. To carry on the business of wholesale and retail chemists, etc. Herbert W. Kilby, M.P.S., and Wilfrid A. Kilby, M.P.S., directors. R.O.: 10 Park Square, Luton.

Insecta Laboratories, Ltd. (P.C.). — Capital £1,000. To carry on the business of pest controllers, chemists, druggists, etc. Miles D. Price, S. Monks and Manon Shaw, directors: R.O.: 159 Victoria Street, London, S.W.1.

P. B. Cow & Co., Ltd.—Treasury consent has been obtained for the issue of new preference and ordinary capital. It is understood that the amount involved is about £900,000.

The Wellcome Foundation, Ltd.—Mr. C. Gordon Oakes and Dr. Denis E. Wheeler have been appointed joint managing directors. Mr. Oakes, at present managing director of Burroughs Wellcome & Co. (Australia), Ltd., is expected to arrive in this country to take up his appointment in about two months' time. Dr. Wheeler has been a director of the Foundation since October 1946.

LEGAL REPORTS

Sugar Instead of Honey.—At Salford, Lancs, on July 12, Nor-sun, Ltd., Central Drive, Blackpool, were fined £10 for supplying drugs not of the nature and substance demanded. Prosecuting solicitor said the firm made borax and honey which analysis showed contained a sugar syrup instead of honey.

Doctor's D.D. Fine.—At Birmingham recently, Dr. Ralph Martin Case, 71 Gillott Road, Edgbaston, pleaded guilty to six charges of obtaining morphine sulphate without being authorised to do so. The defendant admitted uttering prescriptions for non-existent patients and using the names of other doctors. He asked for seven other offences to be taken into consideration. A statement was read in which Dr. Case gave details of the prescriptions he had made out. The drug was used for self-administration. Professor Lancelot Hogben, Birmingham University, said there was no one for whom he had a higher respect as a colleague in the laboratory than Dr. Case, who was a man of exceptional talent. Dr. Schultz, Birmingham University, said that Dr. Case had made most remarkable efforts to cure himself of this terrible addiction. Fines totalling £6 were imposed.

TOPICAL REFLECTIONS

Nottingham University

The announcement that University College, Nottingham, has been granted university status (p. 101) will be read with great satisfaction. The College has waited twenty years for this recognition. It is appropriate that Lord Trent, to whose father the College is so largely indebted, becomes the first Chancellor of the University. When the College was opened by King George the Fifth, it was announced that the benefactions of the first Lord Trent (then Sir Jesse Boot) totalled about £1 million. The opening ceremony in the main hall of the building was a pleasant and at the same time an impressive function: on refreshing my memory from the account in THE CHEMIST AND DRUGGIST of July 14, 1928, I see that it was also short. The handsome building, with a frontage of about 400 feet, is admirably placed in park-like grounds, and by its well-planned layout adds to the comfort of those who study there. Obviously this great educational centre was destined to attain the rank of a university: the only matter for surprise is that the recognition has been long in arriving. Pressure on British universities since the war ended has been so severe that the addition of a new series of comparable degrees will materially ease the position in this respect. This trouble of colleges being overcrowded is, unfortunately, widespread. The other day I read of a college (though not a British college) where in at least one faculty the students do not all see their teacher but have to be separated, a considerable number sitting in another classroom and having lectures relayed by loudspeaker.

Society of Chemical Industry

A news paragraph on the sixty-seventh meeting of the Society of Chemical Industry (p. 101) is a reminder of the valuable contribution made by this society to the industrial progress of the country. In years when you had reasonably extended (though not unlimited) space, you used to give half-a-dozen or more pages to each of its annual events. Some of your younger readers may like to know, and some older readers to be reminded, that in 1894 a pharmacist, Mr. E. C. C. Stanford, was President of the Society, and that seven years later another pharmacist, Mr. (afterwards Sir) Joseph Swan, F.R.S., followed him in that capacity (I do not know of other instances). It is a remarkable fact that Swan, widely remembered for his electric lamp, and less widely for his inventions in photographic processes, spent nearly forty years in retail business. As a schoolboy he laid the foundation of his success with the encouragement of an enlightened teacher. During apprenticeship he continued experimenting at such times and with such apparatus as conditions permitted. As early as 1860, when thirty-one or thirty-two years of age, he made a trial of lighting with a spiral of carbonised card placed under a glass shade connected to an air pump. From such beginnings to presidency of a learned society is a long step; but Swan seems to have surmounted every obstacle with ease. The Society of Chemical Industry is concerned for the most part with large-scale manufacture; but research of the type I have indicated goes on—and, let us hope, will go on—unceasingly.

Notting Hill

While the rhapsody of the late G. K. Chesterton, cited on p. 132, does not strike me as particularly convincing, it serves to eulogise the pharmacy (and, by inference, the pharmacists) of one of the most interesting parts of London. Notting Hill is now little more than a postal designation, as the south side of the main road from Marble Arch to Shepherd's Bush Green belongs to Kensington and the north side of the road to North Kensington. But one has only to turn right or left off High Street, Notting Hill, to find many historic associations. In a house on the south-east side of Campden Hill Sir Isaac Newton died in 1727. The extent of the famous Kensington Gravel Pits has never, I believe, been definitely settled; it is known, however, that they were situated on both sides of the present High Street. They were a resort of wealthy invalids from the time of William the Third to about 1800. Their "country air," Edward Walford states ("Old and New London," V. 179), "seems to have been preferred, not only to that of Essex, but to that of Kent." He quotes Garth's "The Dispensary" (1699) as comparing the air of the Pits with Kentish air. Queen Anne borrowed a house in the locality for the use of her children. By the latter years of the nineteenth century the high ground of the Campden Hill district had attracted numerous artists—drawn, possibly, by the reputed superiority of the air. ***Xrayser***

THE WEEK IN PARLIAMENT

By a Member of the Press Gallery, House of Commons

THE Minister of Food was asked by SIR CUTHBERT HEADLAM on July 19 why permit holders for quantities above sixty rations of soap per period were not allowed to change their suppliers when private consumers were allowed to do so. DR. EDITH SUMMERSKILL (Parliamentary Secretary) replied that the permit holders referred to had been allowed to change their supplier when in the view of the Department the circumstances warranted it. The Department was about to examine the possibility of permitting a general change when the permits were reviewed at the end of March 1949.

Exports of Salt to Colonies

The President of the Board of Trade was asked by MR. B. T. PARKIN on July 21 who controlled the export of salt to the Colonies, and what steps he was taking to make it available to small firms engaged in buying produce as Government agents.

MR. J. W. BELCHER (Parliamentary Secretary) replied that there was no control over the export of salt, which was fairly plentiful; he did not generally consider it necessary to take any special steps to help particular firms to acquire supplies.

Streptomycin Supplies

The question of streptomycin supplies (see *C. & D.*, July 24, p. 107) was again raised (in an adjournment debate on July 21) by MR. S. T. SWINGLER, who spoke of difficulties that had been encountered in getting a supply for a constituent, although, after he had appealed to the Minister, a supply had been made available within twenty-four hours. He demanded further facts about the supply position, and asked what was the manufacturing position in this country at the moment, and how soon the country would be independent of buying supplies in the United States, how many hospitals were authorised to have a supply; how many treatment units were established: and how many more would shortly be so authorised when the regional hospital boards had made their plans. If there are not sufficient beds in those hospitals in which the drug could normally be used, who had the discretionary power to send a supply to other hospitals?

MR. ANEURIN BEVAN replied that the use of streptomycin was still in its early stages, and the drug had to be used carefully because it had a toxic effect. It was desirable that streptomycin should be administered under hospital conditions an preferably with laboratory controls.. It wa now established that tuberculous meningiti reacted in some instances favourably to th use of streptomycin (in about 31 per cen of cases hopeful results had been realise but that showed, of course, that it had sti proved ineffective in the majority of case It was therefore all the more necessary t use moderate language in describing th uses of the drug and not to raise false hop among sufferers.

Supply Being Planned

Arrangements were being made to pr vide treatment for as many cases of milia tuberculosis and tuberculous meningitis possible The arrangements would al apply if the value of streptomycin w reliably shown in other cases. There we known to be a number of other borderli conditions in which streptomycin might b efficacious, and the developments we therefore going on. The supply was bei planned, and British production was bei increased to meet all needs. All t regional boards had been asked to say what hospitals and sanatoria such cas could be brought together. Twenty-six these treatment centres had already be provided, and, so soon as it was knov where the additional ones were to be esta lished, supplies of streptomycin would provided for them. Arrangements had be made to supply streptomycin for cases other hospitals if there was no bed for th in a recognised centre. A doctor at a hospital could get streptomycin in su circumstances by applying to the Minist of Health Supplies Division (Kensingt 3471, extension 102).

It was estimated that, to treat all cases miliary tuberculosis, tuberculous meningi and tracheo-bronchial tuberculosis in t country, not more than 40 kilos of strep mycin would be needed per month. Fr November 1946 until now, including kilos due to arrive in August, 309 kilos streptomycin had been imported from t United States at a cost of 777,000 dolla Large-scale production in this country w now beginning. On May 8, firms engag in the work had been asked to take possible steps to speed up progress, rep difficulties, and ask for any help needed getting plant and raw materials. It w expected that a total of 25 kilos would received this month, and at least 50 ki

n August. Production should reach 100 ilos a month by the autumn. A further lant with a much larger capacity should ome into operation early in 1949. The upplies would more than meet the needs of ll cases where the use of streptomycin was o far recommended, and would enable eatment to be extended to other types f case as expert advice favoured such treatnent. Therefore, if the extent of the nerapeutic use of streptomycin was not ncreased between now and the end of the ear, the country should be in a position o meet all domestic needs and to export. n the event of an increased use of streptonycin, the domestic supplies must come rst, and only that part which was surplus ould be available for export to overseas estinations.

emoval of Controls

MR. GRANVILLE SHARP asked the Presient of the Board of Trade on July 22 what ecommendations made by the Examiner of ontrols had recieved his approval. Had ny controls no longer necessary been reioved as a result of the comprehensive eview of the controls operated by the Board Trade? MR. HAROLD WILSON replied hat, as a result of the Examiner's recomendations, he had withdrawn the control ver the manufacture and supply of toilet reparations; the controls over glue, elatin and size were among others to be odified. Other recommendations were nder consideration.

luorine in Water Supplies

MR. TOM DRIBERG asked the Minister Health on July 22 if he was aware that, the towns of Glassborough, Pitman and oodstown, New Jersey, U.S.A., whose ater supply had been fluorinated since 927 there was from 50 per cent. to 85 per nt. less dental decay among children than neighbouring towns whose water supplies cked fluorine. What similar experiments ad he conducted in this country, and what ad been the results? MR. ANEURIN BEVAN plied that he was aware of the research America and elsewhere on the effect of uoride in water supply on dental decay. I am advised that there is definite evience that small concentrations of fluoride ve a measure of protection against dental ries in young children; the effect however, ay be transient and there is a risk of disloration of the teeth. Experiments are ing conducted in this country on an ternative method of applying the fluoride, it the results are not yet available."

National Health Service

MR. BEVAN told MR. G. R. CHETWYND on July 22 that the provisional figure for the number of general practitioners who had joined the National Health Service in England and Wales by July 10 was 18,575, subject to further checking. The total number of general practitioners in England and Wales was believed to be about 21,500. MR. PETER FREEMAN asked whether the regulations allowed doctors or dentists employed in the Health Service to hold financial interests in patent medicines or other proprietary articles of a medical nature. MR. BEVAN replied "There is no power in the National Health Service Act to make regulations on that point the Hon. Member has raised."

SCOTTISH CHEMICAL INDUSTRY

THE Scottish Office has issued a second review of the main developments and trends in the economic affairs of Scotland (Cmd. 7459, H. M. Stationery Office, price 1s. 6d.). The review deals with the calendar year 1947 and outstanding events of the early part of 1948. Of the chemical industry it records that an already well-established centre in the Grangemouth area is to be augmented by an extensive factory for the processing of chemicals from petroleum. A substantial number of Scottish women workers are being trained in order to form a nucleus staff at the new factory in Aidrie of Boots Pure Drug Co., Ltd. Cooper, McDougall & Robertson, Ltd., plan to extend their Glasgow works considerably according to a scheme to be carried out in stages during the next few years at an estimated cost of £1,000,000, and to give employment on completion to an additional 300-400 workers. Five new projects in the Scottish chemical industry approved in 1947 will, when in full production, require 500 employees. Further work has been done by the Scottish Seaweed Research Association, and commercial developments in alginate products are being carried out by Alginate Industries, Ltd., at their factories at Girvan, Barcaldine, Kames Bay and Lochboisdale. The field of potential industrial uses of seaweed is widening; from alginic acid and its salts, products have been obtained for use in several industries including food, textiles, plastics and cosmetics. A soluble alginic swab for surgical use is one of the more recent products.

BIRTH

PRINGLE.—In London, on July 17, Constance, the wife of Norman Pringle, M.P.S., 1 High Street, Walthamstow, London, E.17, of a daughter (Heather).

DEATHS

FENTON.—At the Royal Northern Hospital, London, recently, Mr. Richard Fenton, 5 Cornwall Avenue, Church End, Finchley, London, N.3, aged seventy-three. Mr. Fenton qualified as a chemist and druggist in 1896.

HORNBY.—On July 8, Mr. Frederick William Hornby, M.P.S., 57 Parkfield Drive, Anlaby Road, Hull. Mr. Hornby qualified in 1891.

JONES.—On July 7, Mrs. Louisa Montague Jones, a director of Edmund Jones, Ltd., Miles Bank, Hanley, Stoke-on-Trent. Mrs. Jones continued the business founded by her husband, the late Mr. Edmund Jones, M.P.S.

LEPAGE.—In Brussels, Belgium, on July 21, Mr. Oscar Lepage, *pharmacien, Chevalier de l'Ordre de Léopold avec rayures d'or,* aged eighty. Mr. Lepage had a distinguished career in pharmacy and took a prominent part in the pharmaceutical affairs of Belgium.

LOW.—On July 7 Mr. Robert Usher Low, Durham Road, Birtley, co. Durham, aged seventy.

NEWTON.—At Crane Street Nursing Home, Salisbury, on July 13, Mr. Francis Herbert Newton, 161 Castle Street, Salisbury, aged seventy-nine. Mr. Newton qualified as a chemist and druggist in 1896.

PIGGOTT.—On June 30, Mr. R. R. Piggott. Mr. Piggott served for seventeen years as a representative in Yorkshire of Johnson & Johnson (Great Britain), Ltd.

THOMSON.—At 33 Cambridge Gardens, Leith, on July 18, Mr. James Gifford Thomson, M.P.S. Mr. Thomson was in business at 277 Laster Road. He qualified in 1928.

WALKER.—On June 12, Mr. Alfred Walker, M.P.S., Crimple Beck, Rudding Lane, Harrogate, Yorks, aged seventy-three.

WILLS

MR. F. W. APPLEYARD, M.P.S., 71 Cecil Avenue, Bradford, left £8,714 (£8,492 net).

MR. J. A. STELFOX, M.P.S., 11 Aughton Road, Southport, Lancs, left £26,991 (£26,885 net).

MR. F. B. FLINT, M.P.S., 5 Oakleigh Avenue Timperley, Ches, left £1,794 (£1,532 net).

MR. F. MAXWELL, M.P.S., 48 Langdale Road Hinckley, Leics, left £2,761 (£2,233 net).

MR. C. H. BERGER, M.P.S., 19 Argyle Square Sunderland, left £3,578 (£2,670 net).

MR. W. E. HICKIN, M.P.S., Y Garth, Lixwm Holywell, Flints, left £6,939 (£6,909 net).

MR. J. MCCREERY, M.P.S., 29 High Street Mablethorpe, Lincs, left £442 (£393 net).

MR. J. C. BEGG, M.P.S., 12 Drury Lane, Lincoln, left £1,332 (£1,228 net).

MR. A. C. GARDNER, M.P.S., 12 Kingsholt Road, Gloucester, left £4,642 (£4,124 net).

MR. H. ROBINS, retired pharmacist, 8 Market Place, Wantage, Berks, left £3,375 (£2,794 net).

MR. W. D. SIM, M.P.S., 43 Torcross Avenue Coventry, Warwicks, left £444.

MR. J. M. DOUGLAS, M.P.S., Queensdale, Greenside, Peebles, left personal estate in England and Scotland valued at £8,041.

MR. A. TENNANT, Ph.C., Beach Cottage, 7 The Grove, Holland-on-Sea, Essex, left £2,217 (£2,0[illegible] net).

MR. W. YEATS, M.P.S.I., 6 Verdon Row, St. Lukes, Cork, Eire, a director of T. R. Lester, Ltd. Cork, left £1,640, in England.

MR. R. A. CHESHIRE, M.P.S., 3 Lyefield Road West, Charlton Kings, Glos, left £5,812 (£4,0[illegible] net).

MR. W. K. S. ROWLANDS, M.P.S., 7 St. Andrew Place, Llandudno, Carnarvons, left £7,299 (£5,3[illegible] net).

MR. J. S. MIDDLEMASS, M.P.S., 17 Lorne Terrace, and 62 Norton Road, Stockton-on-Tees Durham, left £11,682 (£11,168 net).

MR. S. R. SIMNETT, M.P.S., 93 The Glade Shirley, Croydon, Surrey, and High Street, Beckenham, Kent, left £4,576 (£3,702 net).

MR. R. MACGREGOR, M.P.S., The Market Pharmacy, Station Lane, Pitsea, Essex, left £4,3[illegible] (£3,326 net).

MR. A. HALL, M.P.S., Parkside, and the Broadway, Cheam, Surrey, left £840, with net personal £816.

MR. A. BATTERS, M.P.S., 341 Rookery Road Handsworth, Birmingham, left £455, with net personalty £401.

MR. W. F. LAYCOCK, M.P.S., 15 Woodsmoor Lane, Stockport, left £659, with net personal £622.

FLYING OFFICER GEORGE DOUGLAS GAMBLE D.F.C., B.E.M., M.P.S., 72 Coventry Road, Bedworth, Nuneaton, formerly of Wallasey, who died on war service in November 1944, left £958.

MR. L. L. ROY, Ph.C., 62 Browning Road Enfield, Middlesex, superintendent chemist Ragg, Ltd., Lower Edmonton, London, N.9, left £1,935 (£1,893 net).

MR. H. R. GREENHALGH, Woodhey, Pembroke Road, Moor Park, Middlesex, formerly of Bebington, Ches, a former vice-chairman of Lever Bros. & Unilever, Ltd., left £220,323 (£215,3[illegible] net).

PERSONALITIES

Mr. D. Leitch, M.P.S., c/o McNab, Main Street, Gorebridge, Midlothian, has been appointed divisional secretary of the Pharmaceutical Society for the Dalkeith District of Midlothian.

Mr. C. G. Drummond, M.P.S., who has been appointed to a second term of office as chairman of the Scottish Department (formerly North British Branch) of the Pharmaceutical Society (see p. 155), is the proprietor of the pharmaceutical business of H. B. Wyllie, 38 Grassmarket and 463 Lawnmarket, Edinburgh. He qualified in 1925 from the Royal Dispensary School of Pharmacy, Edinburgh, after an apprenticeship with Mr. George Lunan, Ph.C., Queensferry Street, Edinburgh. He has been secretary of the Edinburgh and South-eastern Scottish Branch of the Society since 1936, and was secretary of the local committee of the British Pharmaceutical Conference, Edinburgh, 1938. Mr. Drummond was elected to Executive in 1944.

Dr. T. A. Henry (Wellcome Research Institution) is the author of an appreciation of the late Dr. David Hooper, LL.D., Ph.C., F.R.I.C., which first appeared in the "Journal of the Chemical Society" and is now reprinted as a monograph.

Mr. H. Miles Leith, M.P.S., 3 Hope Street, St. Andrews, Fife, who is about to undergo training in theology to become a minister of religion, has graduated M.A. from St. Andrews University. During the 1939-45 war he served with the Argyll and Sutherland Highlanders. Upon demobilization he sold his pharmacy at St. Andrews in order to commence his studies.

Rt. Hon. J. A. Beasley (High Commissioner for Australia) unveiled at Kodak House, London, recently, a plaque that had been presented to Kodak, Ltd., by the Overseas headquarters of the Royal Australian Air Force in commemoration of a period during the 1939-45 war when headquarters staff occupied the building.

Dr. C. H. Best (director of research, Banting Institute, Toronto) has been presented with the medal of honour of the Canadian Pharmaceutical Manufacturers' Association, in recognition of his contribution to science in the development of insulin, in collaboration with the late Sir Frederick Banting. He is the second recipient of the medal; the first was Professor Alexander Fleming, in 1945.

Mr. Frederick Panchaud, M.P.S., was presented with a gold watch by the Bedford County Hospital Board Committee recently on the occasion of his retirement as pharmacist to the hospital after forty-nine years' service. He was apprenticed in 1889 at Addenbrooke's Hospital, Cambridge, and qualified in 1899. Mr. Panchaud, who is well known locally for his marionette shows and as a comedian, has taken part in many concerts given by the staff at the hospital.

Mr. R. C. Hannant, M.P.S., who has been appointed chairman of the Great Yarmouth Pharmaceutical Association and Branch of the National Pharmaceutical Union, has served for seventeen years as secretary of the Association. He was also for many years secretary of the local Branch of the Pharmaceutical Society. Apprenticed with Mr. F. E. Whitfield, M.P.S., Great Yarmouth, in 1912, he served during the 1914-18 war with the Royal Army Medical Corps as a dispenser and qualified in 1921 from the Brighton College. After experience as manager to Mr. W. F. Cole, M.P.S., Lowestoft, he purchased the business of the late Mr. B. M. Andrews, Harleston, Norfolk, in 1923. He disposed of it in 1931 and bought the business of Mr. K. Rumbold, M.P.S., the Station Pharmacy, Gorleston, which he still conducts. Mr. Hannant served with St. John Ambulance Association as first-aid instructor and as battalion gas officer in the Home Guard during the 1939-45 war. For his services during this period he was decorated as Serving Brother of the Order of St. John.

TRADE NOTES

Pharmaceutical Needs under N.H.S.—Butler & Crispe, 80 Clerkenwell Road, London, E.C.1, draw attention to their motor, rail and post delivery service.

Containers.—Leaflets are available from Percenta, Ltd., Percenta House, 130 Tooley Street, London, S.E.1, illustrating the ranges of (a) pharmaceutical and (b) industrial containers they supply.

Shop Bottles.—Beatson, Clark & Co., Ltd., Rotherham, Yorks, draw attention to the special easy-pouring lip that is a feature of their flat, sunk-enamel-labelled shop bottles for chemicals and galenicals.

Holiday Closings. — The offices and works of S. Sigal & Co., Ltd., 47 Tabernacle Street, London, E.C.2, now closed for annual holidays, will reopen on Monday, August 9.

Pastilles Off Points.—Chemists are invited to write to John Charles, Ltd., 415 Oxford Street, London, W.1, for wholesale terms for Jay Cee digestive gum pastilles, which are available for sale point-free.

List of Medical Products.—A copy of a new trade price-list of medical products issued by Boots Pure Drug Co., Ltd., Nottingham, will be sent to any chemist or wholesaler on request.

Tube-filling Unit. — A unit comprising tube filling, closing and crimping machines, is offered by Universal Metal Products, Ltd., Salford, 6, Lancs, makers of U.M.P. collapsible tubes.

Showcard Available. — A colourful showcard produced to advertise Nervone tablets is available from the proprietors, New Era Treatment Co., Ltd., Cecil House, Holborn Viaduct, London, E.C.1.

Antihistaminic Cream. — Pharmaceutical Specialities (May & Baker), Ltd., Dagenham, have added to their series of pyranisamine products Anthisan cream which presents the compound in two per cent. strength in buffered o/w emulsion base for use in the treatment and relief of allergic conditions. Anthisan cream is available in 1-oz. tubes.

Flanders Fair.—The third Internationa Fair of Flanders will open in Ghent, Be gium, on August 26. The northern agen to the Fair are Robertson, Buckley & Co Ltd., Berey's Buildings, George Stree Liverpool. In the southern area the agen are S. R. Tippett & Co., Ltd., 110 Canno Street, London, E.C.4.

Bonus Offer.—Burroughs Wellcome Co. (the Wellcome Foundation, Ltd.), 18 Euston Road, London, N.W.1, offer bonus of fourteen to the doz. on six-do assorted parcels or thirteen to the doz. o three-doz. assorted parcels of Tabloi aspirin.

Emulsifying Wax. — Pharmaceutic Laboratories Geigy, Ltd., National Buil ings, Parsonage, Manchester, 3, announ the introduction, under the name Tenapo of an emulsifying wax conforming strict to the B.P., 1948, standard for cera emu sificans. The range of Tenapol waxes no includes Tenapol, Tenapol I and Tenap II.

Treatment of Athletes' Foot.—Antig Laboratories, Ltd., Stanhope Street, Lo don, N.1, announce the introduction Pedzyl ointment and powder for the trea ment of athletes' foot and other dermat mycoses. The product is claimed to relie the itching, to cure a high percentage cases, and to be free of unpleasant si effects. Supplies may be obtained eith direct or through wholesalers.

Reduced Prices.—William Freeman Co., Ltd., Suba-Seal Works, Peel Stre Barnsley, Yorks, state that new reduc prices are now in operation for the Sub Seal indiarubber hot-water bottle.—Sand Products, Ltd., 134 Wigmore Stre London, W.1, announce that prices dihydroergotamine-Sandoz oral soluti were reduced on July 1; details of the n prices are given elsewhere in this issue.

Show Material. — To assist pharm cists in linking up with "national pr tige" advertisements put out by Eva Medical Supplies, Ltd., Speke, Liverpo 19, the company has issued a small alu inium showcard printed in three colours a reading "We stock and recommend Eva medical supplies. Your doctor uses them The company has also issued a showca for Flybay insect repellent, size 9 in. 6 in. and printed in seven colours. Bo may be obtained on request to the hor sales department at Speke, or to t

ondon office of the company, 50 Bartho-omew Close, London, E.C.1.

Repack. — Hewlett's antiseptic cream, anufactured by C. J. Hewlett & Son, td., 35 Charlotte Road, London, E.C.2, now being issued in a newly-designed ollapsible tube in protective carton. The artons are sent out in display outers in hich they are kept erect by spring in-erts even when the outer is almost empty. etails of bonus parcels will be made nown in the advertising pages of this aper. The new pack is on sale from ugust 3, at which date the manufacturers ill replace existing stocks by the new ack.

Return of Empties. — Glaxo Labora-ories, Ltd., Greenford, have made arrange-ents under which Container Recovery ervices (S.P.D., Ltd.), Unilever House, lackfriars, E.C.4, will call on retailers and holesalers at frequent intervals for empty ood cartons and will pay twopence per car-on at the time of collection. All cartons ow issuing from Messrs. Glaxo are labelled .R.S.; earlier cartons not so marked may e returned to Greenford for credit in the revious manner if desired, or handed in nder the new arrangements. Non-return-ble cartons should be handed to the local alvage authorities. The new scheme does ot apply to Northern Ireland or to the ex-reme north of Scotland.

Goods in Improved Supply. — Clarity oll films are now available in increasing uantities from the makers, CLARITY PHOTOGRAPHIC) Co., 34 St. Ann's Road, ondon, W.11; details may be obtained rom the company or from H. Walkden, 6 Lakeside Avenue, Bolton, Lancs.— egular supplies are now available of gly-eryl monostearate (of a quality to comply ith Food and Drugs Act requirements) rom the FAYLENE MANUFACTURING CO., 5 Queens Court, Lower Briggate, Leeds, 1; samples and quotations may be obtained n request. — F. A. MOUSLEY & SONS, TD., Wilderness Works, Derby Road, ondon, S.W.14, are now able to under-ake immediate supply of Beaverpuffs.— . MURRAY & CO., LTD., 45 St. Pancras Way, London, N.W.1, actual makers of amco flat- and round-bottomed glass ubes, are in a position to offer quick deli-eries of all sizes at keen prices for home nd export markets. — JAMES WOOLLEY, ONS & CO., LTD., Victoria Bridge, Man-hester, 3, announce that supplies are now reely available of Nurona sunbronze and untan creams.

New Display Material. — J. C. Eno, Ltd., Watford, Herts, draw attention to new show material available for Dinne-ford's fluid magnesia and Eno's Fruit Salt. The baby on the Dinneford's show-

card has been drawn by an artist in oils and shows to good advantage the reflection of the firelight on the baby's face. The baby will be featured also in other forms of publicity including the Press, public transport vehicles, etc. For special displays a large edition of the showcard is available. A new advertising campaign for Eno's Fruit Salt, which commenced in July, centres round a "smiling spoon," which appears in a window-display showcard and in the small counter card illustrated.

Proprietary Articles Trade Association

THE P.A.T.A. points out that incorrect prices for Macleans peroxide tooth-paste and Macleans solid dentifrice were inadvertently included in the com-pany's advertisement in the July issue of the Asso-ciation's "Quarterly Record." The correct retail prices (including tax) are: Tooth-paste, 1s. 4d.; solid dentifrice, 9d.

Alterations to Protected List (Part 1). — *A. Wander, Ltd.*, Wander brand malt extract, 1-lb., 16s. 10d. doz., 1s 10½d.; 2-lb., 32s. 6d. doz., 3s. 7½d.; malt and oil, 1-lb., 18s. 9d. doz., 2s. 1d.; 2-lb., 35s. doz., 3s. 11½d. (exempt from tax).

Alterations to List (Part 2).—*Kemt*, prices in Eire, Kemt complete, 63s. doz., 7s.; refill, 31s. 6d. doz., 3s. 6d.

Scram Products, Ltd. Window and counter dis-play terms, Scram, three doz., 8s. 6d. doz., 1s.; six or nine doz., 8s. 4d. doz.; twelve doz., 8s. doz.; 24 doz., 8s. doz. less 2½ per cent. off invoice. All exempt from tax. Beetlescram, puffer boxes, three doz., 10s. 9d. doz.; six or nine doz., 10s. 9d. doz.; twelve doz., 10s. 6d. doz.; twenty-four doz., 10s. 3d. doz. Bonus of thirteen to doz. Exempt from tax. Retail price 1s. 3d.

Deletions from List.—*Howard-Taylor, Ltd.*, Ven-tay bronchial tablets; Ventay digestive peppermints; Ven-Vites vitamin tablets; H.T. scented cachous. *Staniform, Ltd*, Staniform preparations.

MEDICAL ABSTRACTS

Penicillin in Scarlatina.—Under intramuscular injection of 90,000-150,000 units of penicillin twice daily, sore throat in 1,000 patients with scarlet fever treated by Jersild ("Lancet," May 1, p. 671) subsided rapidly, the febrile period was only 4-5 days (against 7 days in sulphanilamide-treated controls), and no otitis or nephritis developed as a complication. The rash of scarlet fever was not influenced by the treatment. Mastoidectomy was rendered unnecessary in all but two out of fifty-six patients admitted to hospital with a streptococcal otitis.

Fluorides in Drinking Water. — F. J. Maier ("American Journal of Public Health," 1947.37.1513-1644), states that optimal prophylactic effect of fluorides on caries is obtained within the range of 1 to 1.5 parts per million. Greater concentrations are associated with mottled enamel or dental fluorosis. More than 500 communities in the U.S. are now using public water supplies containing in excess of 1.5 p.p.m. of fluorides, and most removal processes now available appear to be either too expensive to operate or too complicated for routine application.

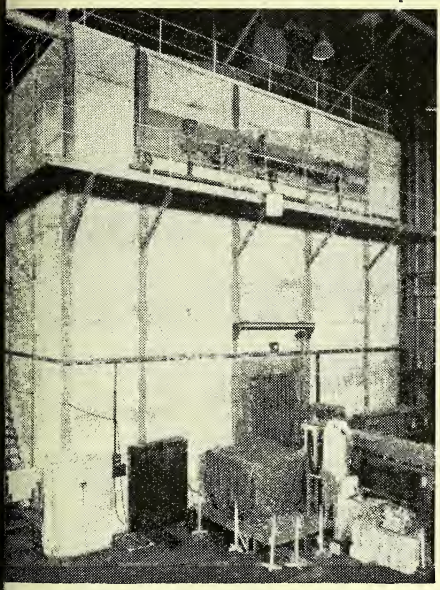
Streptomycin Dermatitis. — Rauchwerger and others ("Journal of the American Medical Association," February 28, p. 614) report cases of sensitivity to streptomycin. Six nurses at a tuberculosis hospital developed symptoms of rash and pruritus, and in two patients there was denuding of the skin over the ends of the thumbs and index fingers of both hands. Dermatitis affecting the skin round the eyes, the elbow flexures and the hands, in four out of some eighty nurses who had been handling streptomycin for periods of from six weeks to six months, is reported by Crofton and Foreman ("British Medical Journal," July 10, p. 71). Skin-sensitivity tests were positive in the four affected nurses but negative in controls. The authors recommend that persons handling the drug should wear rubber gloves and avoid soiling the skin with streptomycin.

Antihistaminic in Skin Diseases.—Overton ("British Medical Journal," May 8, p. 876), who used Antistin (2N-phenyl-N-benzyl-aminomethyl imidazolin) in a number of skin diseases observed that the drug gave relief of symptoms in urticaria and angioneurotic œdema, some eczematous eruptions with œdema, and occasionally other itching dermatoses. It gave results in some cases in which Benadryl failed. Undesirable effects occurred in fourteen out of eighty-seven patients. Administration was usually by mouth in increasing doses until a therapeutic result was achieved or toxic symptoms occurred, or a total of 800 mgm. of the drug daily had been given.

Uses of Propylthiouracil. — Grauer De Walt and Elkin ("American Journal of Medical Science," 1948.215.1-122) report the clinical effects and laboratory response to thiouracil and propylthiouracil observed in 100 thyrotoxic patients treated for almost three years. Propylthiouracil is claimed to be less toxic and more potent than thiouracil and can apparently be used with relative impunity in thiouracil-treated patients. Pre-surgical preparation of thyrotoxic patients with the antithyroid drugs lessens the mortality rate and decreases the period of hospitalisation. Jackson ("Journal International College of Surgeons," 1947 576) also considers propylthiouracil a much safer drug than thiouracil in hyperthyroidism. The dosage of propylthiouracil for this condition is usually 50 mgm. three times daily until the basal metabolic rate approaches normal, after which a maintenance dose of 50 mgm. daily is given. Thyroidectomy remains the most satisfactory treatment of hyperthyroidism, but pre-operative use of propylthiouracil and iodine is considered valuable.

Sequelæ to Atom Bomb Explosion.—The medical sequelæ of the atomic bomb explosions at Hiroshima and Nagasaki have been reviewed by G. V. LeRoy ("Journal of the American Medical Association," 1947.134.14) The injuries resulted from concussion, heat, light and ionising radiations. Some burns occurred in individuals who were 2½ miles from the area of explosion. The ionising radiations, mostly gamma rays, produced three degrees of injury. In those most heavily exposed, fever and diarrhœa appeared, patients usually failed rapidly and died in about ten days. In about one month, the intermediate group lost their hair. The experienced gastro-intestinal disturbance, frequent diarrhœa, fever, anæmia, leucopænia and purpura, and died from pneumonia and septicæmia. In the least exposed groups, aplastic anæmia was the chief cause of death. LeRoy lists four steps of treatment after exposure to gamma radiation: maintain fluid and acid-base balance, control infection, combat hæmorrhagic tendency and correct anæmia.

BRITISH-MADE RADIOISOTOPES



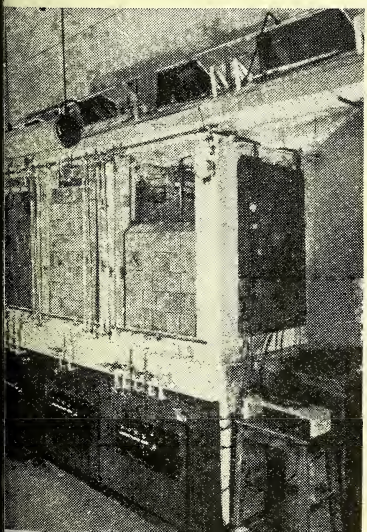
"GLEEP" PILE. The holes, through which samples are put into the pile for the production of radioisotopes, are in the face on the right.

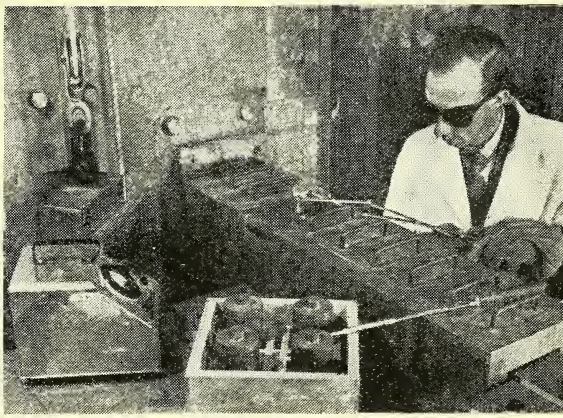
A RADIOCHEMICAL LABORATORY. All operations are carried out behind the protective lead walls shown, are controlled remotely, and observed through mirrors above the apparatus. (Below, left).

PRODUCTION OF RADIOACTIVE ISOTOPES. A sample, in an aluminium container, is being taken out of a hole in a graphite block (see bottom right) after irradiation in Gleep. The operator is protected from radiation by the lead tunnel (shown with handles). The samples are transported in lead pots (centre).

The Ministry of Supply Atomic Energy Research Establishment at Harwell, Berks, was open to Press visitors recently. The apparatus which visitors saw, in addition to the first atomic pile ("Gleep," see *C. & D.*, 1947.II.213) to be erected in Britain, was plant for the separation of stable isotopes of carbon and oxygen by fractional distillation. The process for the separation of carbon isotopes makes use of the difference of about 1/10° F. in the boiling points of compounds of the two isotopes, the compound used being (liquid) carbon monoxide. The liquid is distilled and the fractions separated by use of a vertical fractionating column. It is estimated that the plant will produce carbon 13 at the rate of about 0.3 gm. per day. That amount should meet present demands for research purposes in Britain. The production of radioactive isotopes at Harwell has increased from seventeen per month in September 1947 to 122 in June 1948. Isotopes for experimental work are being supplied to Oxford and Edinburgh Universities, University College Hospital, London, and the Medical Research Council, in addition to certain centres in Denmark and Sweden. The Establishment is producing sufficient isotopes for the medical research in Britain.

The Medical Research Council has established a radiobiological research unit at Harwell to carry out investigations into the effect of radiations on living matter. Another Ministry of Supply establishment, the radiochemical centre at Amersham, Bucks, is shortly to undertake the packing and distribution of radioisotopes produced in the Harwell pile.





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ENTOMOLOGISTS DISCUSS INSECTICIDES

NEW insecticides were among subjects dealt with at the Fifth Commonwealth Entomological Conference in London, July 22-30. DR. R. A. E. GALLEY (scientific secretary to the Insecticides Co-ordinating Conference and the Insecticides Development and Research Committee), opening a discussion on "Recent Developments in Insecticides" said that a large amount of investigation was being done in the formulation and means of application of chlorinated hydrocarbon types of insecticide such as DDT and into the possibility of cumulative toxicity. New insecticides related to DDT included the compounds $(Cl.C_6H_4)_2.CH.CHCl_2$, which was slightly less toxic than DDT, and $(CH_3O.C_6H_5).CH.CCl_3$, which had proved effective against ticks and horn beetles.

Hexachlorbenzene, or more correctly hexachlorcyclohexane (H.C.B.), which was particularly useful against wireworms, unfortunately tainted certain crops, possibly owing to an impurity or to a decomposition product. If the tainting difficulty could be overcome the compound could be much more widely applied. Work was in progress to determine the optimum rates of application and concentrations of the compound. Other new chlorinated hydrocarbon insecticides included chlordan, which had been used successfully in America against the Japanese beetle, body louse and grasshopper, and chlorinated camphene (containing about 65 per cent. chlorine), which was stated to be four times as toxic as DDT.

Phosphorus Compounds

Phosphorus-containing insecticides such at tetra-ethyl pyrophosphate, which were particularly effective against mites and aphides, had been first developed in Germany, but were now being produced commercially in America. They hydrolysed rapidly, with loss of insecticidal activity, and therefore possessed no dangerous residual effects. A phosphorus compound E.605, which was highly toxic to red spiders, was an exception. It had a residual effect and should not be issued for general use until its toxicity had been thoroughly investigated.

Systemic insecticides (such as the compound $(CH_3)_2N)_2P.O.F$) were absorbed by the plants through the roots. The compounds so far investigated were too toxic for general use, and usually contained fluorine or phosphorus. Substituted pyrethrins had been prepared in an attempt to combine the effects of DDT and pyrethrum.

DR. GALLEY made an appeal for a uniform nomenclature of insecticides throughout the Commonwealth and pointed out the advisability of conferring with the U.S. Department of Agriculture, which had already devised a nomenclature system.

In the discussion which followed, DR. MARTIN said that willow beetles had been killed within twenty-four hours when fed experimentally on willow cuttings that had imbibed a systemic insecticide. Radioactive phosphorus was to be used to trace the course and effect of the compounds, which appeared to have an intense fumigant action. Other speakers warned against the production and use of new insecticidal compounds before adequate investigation into the hazards their use might entail.

Mode of Action

DR. V. B. WIGGLESWORTH, F.R.S. (director, Agricultural Research Council unit of insect physiology, Cambridge University) said that the mode of action of insecticides could be conveniently considered under the headings: (1) How is the insecticide picked up? (2) How does the compound enter the body of the insect? (3) How does the insecticide intervene in the vital processes of the insect and cause death?

Movement was often necessary before the insecticide could be picked up by the insect. The beating wings of a flying insect, for example, became contaminated with drops of insecticidal mists, which were transferred to vulnerable parts of the body when the insect cleaned itself. Residual films were more active when they contained crystals, and experiments on DDT distempers had shown that large crystals were more effective than small ones. There was no clear evidence about where DDT entered the body, the lethal dose of DDT (LD 50) for the cockroach for example, being similar whether by injection or by surface application.

DDT affected the nervous system of insects, causing over-excitability and incoordination, and acted on muscle to cause tetanic contractions. Exhaustion alone however, was not the cause of death, for death ensued if intoxicated insects were anæsthetised or given injections of glucose

The toxic action of insecticides might be due to a structural resemblance to some substance essential to the insects' life. It had been shown, for example, that if the chloroform molecule residue in DDT were replaced by a more soluble substituent, the compound ceased to be toxic.

Mr. W. A. Ross (chief of the Fruit Insects Investigation, Canadian Department of Agriculture) said that, in observations in Canada, DDT had proved particularly useful against codlin moth. Factors against accepting the compound as a generally useful insecticide, however, included its lack of toxicity to numerous pests, and the possible danger of accumulated residue to plant growth, grazing animals and milk supplies. There was no evidence that the "sane" use of DDT was dangerous to bees, and there had been no report of DDT injury to trees except when the compound had been applied simultaneously with summer oil. Outbreaks of mites had followed regularly the use of DDT in the U.S.A. and Canada, but it had been found that alternate sprayings with DDT and lead arsenate (in summer oil) controlled all pests. In Nova Scotia, workers were attempting to evaluate the effect of insecticides on pests and their natural enemies. The speaker warned that indiscriminate spraying of DDT might start a "vicious circle" by disturbing the natural balance of the insect population. Future work on insecticides might with advantage be directed towards supplementing natural control. Chlordan had little place amongst insecticides except against grasshoppers; it had a prolonged residual effect.

Dr. D. Miller, New Zealand, thought the absence of bees in Singapore immediately after the war had been caused by the widespread use of DDT. Evidence from New Zealand, however, suggested that DDT, applied to apple trees, appeared to cause no harm to bees, so long as it was applied when the trees were not in bloom. Another speaker maintained that the phrase "disturbing of the natural balance" of insect and other life when applied to the use of insecticides, was usually meaningless, for the natural balance had already been disturbed by agriculture.

MYCOLOGISTS DISCUSS LOSSES DUE TO MOULDS

At the fourth Commonwealth Mycological Conference, London, July 19-24, Dr. D. Snow (representing Great Britain) introduced a discussion on "Losses due to Fungi in Stored Products." Dr. Snow said that the incidence of infection due to moulds in stored feeding stuffs depends on the relative humidity of the atmosphere in which the products are stored. A relative humidity of 72 per cent. is, for example, safe for storage periods up to three months, but for periods of up to three years the relative humidity should be not more than 65 per cent. The moisture contents of feeding stuffs in equilibrium with 65 per cent. relative humidity varied, he said, from 8.4 to 14.6 per cent. Mould species that attacked the products created a range of critical relative humidities necessary for their germination. In the lowest range were aspergillus species. Research was necessary on the critical humidity of germination. Among compounds that had been used to combat mould development were borax, boric acid and sulphonamide compounds.

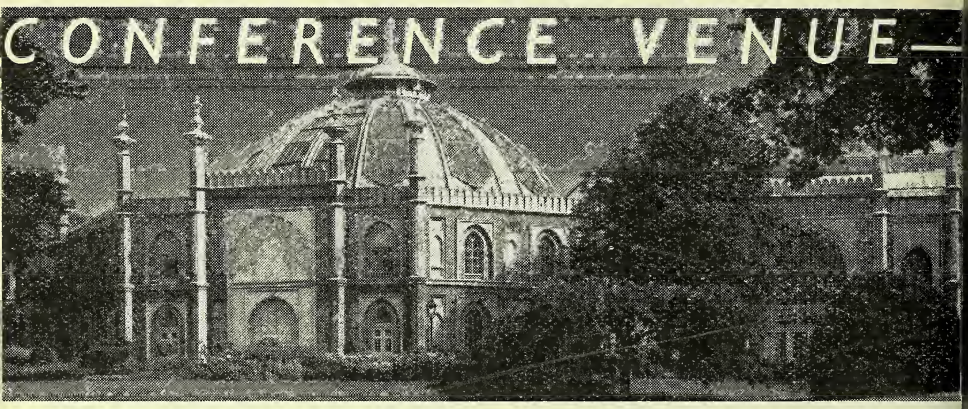
Another speaker at the Conference pointed out that no mould grew in cocoa beans if the moisture content of the beans was below 8 per cent. Contaminated beans, which had been rendered unfit by moulds for the manufacture of cocoa, might still be suitable for the extraction of cocoa butter and theobromine; for, though mould infection liberated free fatty acid from cocoa butter, ketone or peroxide formation was rare. The cocoa butter product required treatment with alkali, with consequent loss in yield.

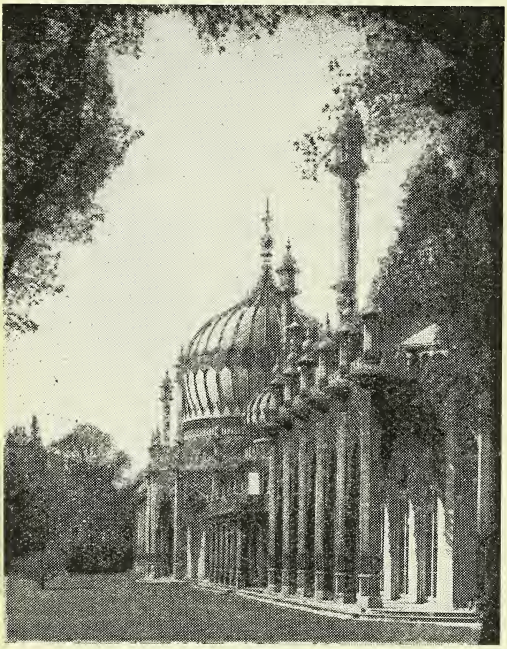
Registration of Fungicides

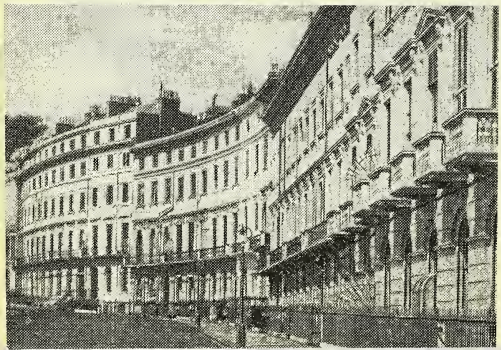
In a discussion on fungicides Dr. I. L. Conners (a Canadian delegate) said that all fungicides and insecticides for sale in Canada must be registered in the Dominion before sale, and worthless products were excluded from the register. In 1937 a large number of proprietary preparations had been found of doubtful value, but by 1940 the number of preparations found deficient on test had declined.

Dr. G. H. Cunningham, New Zealand, said that many fungicides formerly available in his country were dangerous to plant life, but a voluntary scheme of certification had been instituted by the New Zealand Government. Chemical analysis, originally the principal basis of examination, had been supplemented more recently by biological standards.

CONFERENCE VENUE—







BRIGHTON, where the eighty-fifth meeting of the British Pharmaceutical Conference is being held, August 30-September 3, has been the Conference meeting-place on three previous occasions. In 1872 the greater part of the proceedings was devoted to a discussion on education and "those who had the progress of pharmacy at heart were hardly gratified with the hurried four hours on the second day which was all that was given to the proper functions of the Conference." In 1905 a handful of members were seduced from the sessions to go on a pharmaceutical sight-seeing tour of Paris with the Paris correspondent of the *C. & D.* By 1927—the third occasion—the Conference had settled down into its modern form and, under the able chairmanship of Mr. D. Lloyd Howard, who devoted his opening address to an account of recent developments in the design and construction of chemical plant, was a conspicuous success.

Brighton and Hove Pharmacies

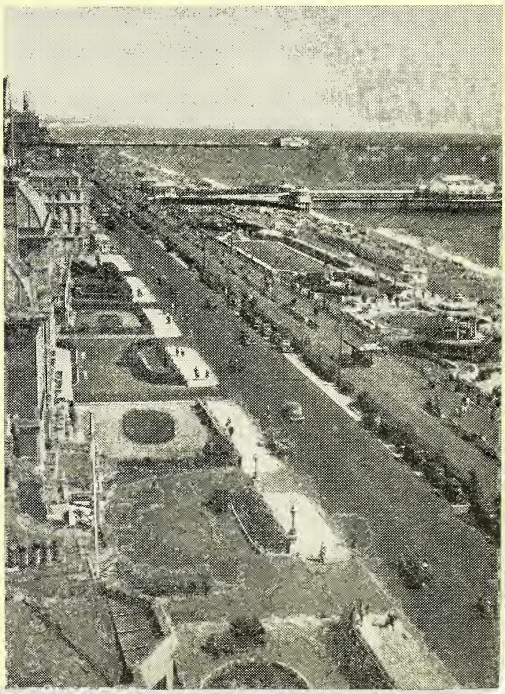
Today the sister towns of Brighton and Hove possess within their borders some ninety pharmacies and several manufacturers and wholesale distributors. Many visitors unacquainted with Brighton — the stage and screen version of "Pink String and Sealing Wax" fresh in their minds—have supposed that the business of Messrs G. B. and J. S. Padwick at 5 Preston Street is the pharmacy of Roland Pertwee's comedy. In fact the original was another Preston Street pharmacy (long since closed)

Copyright photographs reproduced by permission of Brighton Corporation: 1. The Dome. 2. The Royal Pavilion. 3. A Regency period Crescent, one of several at Hove.

BRIGHTON

carried on by the late Mr. E. H. Moore, for many years public analyst to the Brighton Corporation. Nevertheless, Padwick's is of a venerable age. The business was first established as a pharmacy in 1842, and still has its original graceful shopfront and carboys. It was acquired by Mr. John Padwick in 1868, and taken over by his son, Mr. Kingsley John Padwick, in 1915. From 1933 Stuart and Gordon, sons of Mr. K. J. Padwick, were in partnership with their father. When he died, in 1945, the two took over, the younger at Preston Street while his elder brother continued in charge of the firm's other establishment in Hove.

The high-class dispensing business of Parris & Greening, Ltd., is under the direction of the chairman of the local Conference committee, Mr. D. W. Hudson, who is also a member of the National Pharmaceutical Union Executive and chairman of the Brighton and Hove Branch of the



On this page : Aerial views of the Pavilion and environs, and of the sea front. Acknowledgement for some of the pictures reproduced is made to Mr. J. Dixon Scott.

Pharmaceutical Society. Mr. Hudson has shown in many ways that he is a man of outstanding ability and great organising powers, and the business of Parris & Greening, which offers proof that a strictly pharmaceutical business, equipped with a T.S.A. licence and with well-stocked surgical and photographic departments, can prove highly successful, reflects his personality.

150th Anniversary

The business of Glaisyer & Kemp (Chemists), Ltd., Castle Square, this year celebrates its 150th anniversary. For nearly a century after its foundation various members of the Glaisyer family were in partnership with various Kemps. Mr. Frederick Guy, the first owner not bearing either of those names, was succeeded in 1926 by his two sons, Messrs. A. W. and F. J. Guy, the present directors.

R. Walder, Ltd., Duke Street, is a business with a flourishing homœopathic department. One director, Mr. F. W. Fowles, has been about sixty years in the business and still, on periodical foraging expeditions in the county, brings home the plants from which to make some of the homœopathic preparations sold by the company.

Secretary of the Brighton and Hove Branch of the Pharmaceutical Society is Mr. Edgar Jones, whose main business is at Preston Drove, Brighton, with branches at Trafalgar Street, Brighton, and Boundary Road, Hove. The Trafalgar Street shop, which is only a few minutes' walk from the central station, has its well-equipped dispensary on the first floor, with a waiting room for patients on the ground floor. Mr. Jones, who qualified in 1902, and both passed the Pharmaceutical Chemist examination and won the Council's silver medal in 1903, served as secretary of the local Pharmaceutical Committee (under N.H.I.) for thirty-five years.

Western Road and its continuation, Church Road, make an important shopping artery extending through Brighton and Hove, parallel to the seafront. It is well sprinkled with pharmacies, the most prominent of which is a complete block owned by Boots, Ltd.—its large dispensing department supplemented by what is virtually a department store, complete with restaurant and ballroom. Typical private pharmacies in the thoroughfare are those of Lane & Stedman, Ltd., and F. C. Jackson, Ltd. The former has been conducted by Mr. P. E. Stedman since 1946, when Mr. Sydney Lane retired from active participation in the business. Mr. Stedman qualified in 1936, a prizeman of the London School of Pharmacy. It is a point of pride that all galenicals and specialities, including a number of exclusive toilet preparations, are manufactured on the premises.

Messrs. Jackson's pharmacy is today carried on by Mrs. Jackson, her husband's health preventing him from active work in the business. Two qualified assistants (one of whom has worked in the shop for nineteen years) are needed to cope with the amount of dispensing. A new shopfront fitted in 1936, retains not only the carboys and shoprounds, but also the original professional atmosphere.

Throughout both towns pharmacy is carried on at a high professional level in establishments too numerous to be dealt with in this brief summary.

Brighton Wholesalers

On the manufacturing side, Brighton's name is kept prominently before pharmacists both at home and overseas as the home of Arthur H. Cox & Co., Ltd.—possibly the world's largest makers of pills as well as considerable manufacturers and distributors also of tablets, galenicals and specialities. The "Chemists' Own Brand," a specialised form of packaging and service which Messrs. Cox have been operating for many years, has demanded a complete "machinery" of administration as impressive as are the batteries of machines to be found in all the manufacturing departments of the business. Plant for high-speed quantity production of pills—in the coating room alone are assembled as many machines as might suffice for the pill departments of many pharmaceutical manufacturers providing a generalised service to customers—is matched by the number of highly-skilled operatives employed, whose experience and manipulative ability in silvering, varnishing, sugar-coating and other processes explains the confidence reposed in the company by its customers. This point is confirmed by the high proportion of senior to junior members in the production departments—a feature most noticeable to a chance visitor to the works. Space is not available in these columns to describe the numerous manufacturing processes, but evidence of the company's progressive spirit and up-to-date efficiency is to be found in the presence of such items of plant as—in the pan-room—an emulsifying machine that dips into the blending

essel from an overhead travelling gantry; n the laboratory, an electrical instrument or titration measurement; and in the tabet room, an ingenious rotating "record" r disc for counting more than one variety f tablet simultaneously into one bottle. Little wonder that the slogan "Cox of Brighton" has the character of a hallmark.

At the 1905 conference at Brighton, two papers on the manufacture of galenicals were read by the late Mr. R. A. Cripps, Ph.C., F.I.C. (public analyst for Bournemouth), who two years earlier had brought his pharmaceutical manufacturing business to Hove from Haywards Heath. Mr. Cripps, a pioneer in the standardisation of tinctures and liquid extracts, was well known for the high standard of his products, based from the start on rigid analytical control. As employer he had what then seemed an almost revolutionary interest in the welfare of his staff, and introduced a scheme of holidays with pay, for instance, more than forty years ago. Time was to prove the policy, as well as the galenicals, to be sound enough, for the staff today includes three members who were with the firm during the 1905 conference. In 1915 the founder's son, Mr. D. H. Cripps, M.P.S., was taken into partnership, and 1935 saw the formation of the present private limited company. Mr. D. H. Cripps has held the office of governing director since the death of his father, and the tradition of the business has been maintained and vigorously developed in the manufacture of galenicals of all kinds.

Pharmaceutical Education in Brighton

Brighton is also a centre of pharmaceutical education. At the Technical College, under Mr. H. B. Mackie, B.Pharm., Ph.C., the pharmacy department is a model of laboratory layout and equipment. The College was the first provincial training-centre to be recognised by the University of London as providing all the necessary facilities to students taking the B.Pharm. (London) degree, and was the one in all Britain chosen to accommodate Polish pharmacists engaged on refresher courses in this country in 1947. Students have the great advantages of a life shared with entrants for other scientific careers; of access to a library stocked on a scale to challenge comparison with the libraries of colleges in far larger towns; of a full range of modern apparatus (the sterilisation equipment is noteworthy); and not least of association with a principal whose strong personality and independent outlook are reflected in a textbook in which characteristic and unusual approach is made to the teaching of pharmacy as a subject.

SPORTING FACILITIES AT BRIGHTON

THE local committee of the British Pharmaceutical Conference, 1948, has circulated the following information about sports facilities for members afforded by Brighton and Hove. *Golf.*—Free use of Hollingbury Park and Waterhall golf courses, and the miniature golf courses at Roedean and Rottingdean; local clubs offer facilities at reduced fees. *Putting.*—Free use of putting greens east and west of West Pier, Brighton, and in Hove Park, etc. *Lawn Tennis.*—Free use of Hollingbury Park Courts, Brighton, and Hove Park, St. Ann's Well Gardens and Western Lawns, Hove. *Bathing.*—Free use of bathing pools at Black Rock and Rottingdean. *Cricket.*—Secretary will obtain day tickets for members who wish to attend any of the fixtures of the Sussex C.C.C. during the Conference period. *Bowls.*—Free use of Corporation bowling greens in both Brighton and Hove. In addition, the local committee has secured free use of chairs in public parks and sea front, and free admission to the band concerts on the Western Lawns, Hove. The facilities are available for the use of visitors with full conference tickets, who are also eligible to enter any of the following competitions:—GOLF.—Eighteen-holes stroke competition for Edmund White golf trophy (handicap). The Brighton and Hove Association of Pharmacy will donate replicas as permanent mementoes to be presented to the winner and the runner-up. The competition for the golf trophy will be played on the afternoon of Friday, September 3. PUTTING.—Open competition during whole period of the Conference. BOWLS.—The usual competition between rinks of four players representing England and Scotland for the London Challenge cup, also played on the afternoon of Friday, September 3. The Brighton and Hove Association of Pharmacy will donate four miniature cups, one for each member of the winning rink. The closing date for competition entries is Tuesday, August 31, and intending visitors are urged to write without delay for brochure and entrance form, which will be sent by the honorary secretary (Mr. Arch. Wilson), 13 Hove Park Villas, Hove, 4, on request.

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VOL. CL JULY 31, 1948 No. 3571

The Outlook for Insecticides

THE fact that a whole day at the Fifth Commonwealth Entomological Conference (see page 146) was devoted to a discussion on insecticides and their application, whereas, at the previous Conference (held thirteen years ago) the subject did not even appear on the agenda, is a measure of the increasing importance of insecticidal compounds. From a manufacturing point of view, their ultimate possibilities were suggested in the claim by one delegate that "in the foreseeable future" workers might have an "amazing control" of insect pests. At present, the task of the manufacturer must be mainly one of research, and especially to investigate the hazard of toxicity to man, animals, plants and, not least, the natural enemies of pests. The note of warning was dominant at the Conference, as evidenced by the applause given to speakers who urged that adequate trials should be made of insecticides before they were placed on the market.

Since many aspects of research on the mode of action of insecticides run parallel with work on antibiotics and drug action, the subject should commend itself to pharmaceutical workers already established in those fields. Whereas insecticidal compounds at present available appear, as the Conference chairman (Sir John Fryer) pointed out, to have been "picked out with a pin," another speaker (Dr. Wigglesworth) outlined a plan of research that should provide a basis for the discovery of compounds with predetermined properties. Work should be directed, in the words of another delegate, towards supplementing natural control. Charges of "upsetting the balance of nature" may be set in their right perspective since, as was pointed out at the Conference, the very practice of agriculture has that effect.

Record Export Totals

THE result of the country's efforts to increase exports and reduce imports is beginning to be reflected in the trade returns. The international trading account of the United Kingdom for the first half of this year shows that the adverse balance between imports and exports has been slightly reduced. Exports during June, including re-exports, of all descriptions of commodities reached the record total of £138.85 millions (£92.9 millions in June, 1947) and for the first six months of this year shipments aggregated no less than £774.8 millions, compared with £550.8 millions in January to June 1947. Imports rose slightly in June to £177.1 millions, with the six months' total at £1,027.2 millions, compared with £817.8 millions in January-June 1947. The deficit on the country's international trading account for the period January-June was £252.4 millions, against £267.0 millions in the corresponding period of 1947.

Shipments of products of the "Chemicals, etc." group continue to increase, with the June total at £7.16 millions and £40.1 millions for the first six months of the year. In 1947 the shipment totals were £5.6 millions and £31.0 millions, respectively, showing an increase of no less than £9 millions on the six-months' trading. Imports of chemical products amounted to £2.8 millions in June and £15.9 millions in the first six months of the year, an increase of £4.5 millions on the value of the landings in January-June 1947. The credit balances were £24.2 millions for the six months of this year, compared with £19.6 millions in January-June 1947. The margin for this year would, of course, have been substantially greater but for the fact that many sections of the industry have been called upon by the Government to give priority to home requirements.

Exports of manufactured drugs, medicines and medicinal preparations are rising; the June total was £1.43 millions,

compared with £1.27 in May and £1.18 in April. The target for the end of the year is a monthly average of £2.15 millions. A welcome improvement is shown in the proprietary medicine trade, which contributed £483,096 towards the manufactured medicines exports total, compared with £397,770 in May and £382,479 in April. June shipments of quinine totalled 284,269 oz., valued at £54,791, which was over three times the quantity exported in the previous month and more than double pre-war exports. Aspirin exports at 55,885 lb., valued at £14,440, were rather disappointing in June; shipments for the first six months this year were £98,000 less than in the corresponding period of 1947. Insulin exports realised £28,354.

A welcome improvement is recorded in exports of perfumery and toilet preparations which in June totalled £297,586, against £277,053 in May. Cosmetics sales at £592,828 were about the average of recent months but a considerable increase is shown in tooth and denture preparations, etc., which reached £81,036, compared with £49,258 in the previous month. Shipments of British-distilled essential oils in June were valued at £48,571 (May, £29,542), and of toilet soap, £120,387 (£116,038).

The chief destinations and values (in millions) of shipments of chemical products during January-June were as follows: India and Pakistan, £3.51; Australia, £2.44; Union of South Africa, £2; Sweden, £1.75; Eire, £1.72; Argentine Republic, £1.63; Egypt, £1.63; France, £1.59. On p. 159 details are given of import and export totals, for the six months ended June 30, of a number of classes of goods and the corresponding half-yearly totals for other years.

A Trace-element Traced

Workers on the newly discovered anti-pernicious anæmia factor (see *C. & D.*, May 1, p. 563, and June 5, p. 728) in the research department of Glaxo Laboratories, Ltd., under Mr. E. Lester Smith have detected the presence of cobalt in the compound. This has occasioned some surprise since, although cobalt is recognised as an essential trace-element, it has not previously been reported present, so far as the workers are aware, in an isolated compound of natural origin. Colorimetric estimations have shown that the vacuum-dried crystals of the factor contain 4 per cent. of the element, equivalent to a molecular weight for the compound of about 1,500, assuming one molecule to contain one atom of cobalt. The value agrees closely with an *x*-ray crystallographic determination conducted by the same investigators. American workers have discovered simultaneously the presence of cobalt in a liver factor (see *C. & D.*, May 8, p. 598) which they term vitamin B_{12}.

Seeds of Discontent

The development recently in Australia, after seven years of experiment, of a new eucalypt yielding ten times as much oil as the wild tree has reintroduced the sort of problem that attended the historic attempts of China to prevent the export of her silkworms. Eventually, as is well known, the eggs of the bombyx (silkworm) moth were smuggled out of the country.

High prices are now being offered, it seems, for a handful or less of the seeds of the new Australian eucalypt (see *C. & D.*, April 10, p. 456), and a Federal Government export embargo might not, on the precedent of the silkworm, prove "watertight." A single smuggling might, indeed, in a few years — for the eucalypts are among the fastest-growing of trees — spread the new species all round the world. That it could be acclimatised elsewhere is evident, for botany-minded visitors to Cornwall may have seen for themselves a grove of very large eucalypts around an old house on the west side of Swanpool, a coastal suburb of Falmouth. The aromatic fragrance of the trees assails from quite a distance the nostrils of tourists. Their presence in that spot is understood to be due to seed sown many years ago by an Australian who built the house. Already more than six dozen countries are cultivating various species of eucalyptus. The new Australian discovery would give the Dominion a noteworthy advantage over its competitors. Not surprisingly, Australian growers have called for Government action to prevent export of the seeds. The success of such efforts, if made, will be watched with interest.

SCOTTISH DEPARTMENT OF THE PHARMACEUTICAL SOCIETY

Meeting of Executive

At a meeting of the Executive of the Scottish Department of the Pharmaceutical Society, held in Edinburgh on July 14, the following officers and committees were elected: *Chairman,* Mr. C. G. Drummond, Edinburgh; *Vice-chairman,* Mr. C. W. Macfarlane, Dundee. *General Purposes Committee:* The chairman, vice-chairman, Messrs. J. Anderson, W. S. Culbert, W. T. Elder, A. B. Gilmour and A. Murray. *Parliamentary Committee:* The chairman and vice-chairman, with Messrs. C. Coutts, W. S. Culbert, A. B. Gilmour, R. S. Graham, J. Simpson and J. H. Tainsh. Dr. Tait said that a report submitted at the final conference of the Association of Insurance Committees had pointed out that for many years, under National Health Insurance, pharmacists had been underpaid. Dr. McCall reported on a meeting he had attended of the Drug Accounts Committee (Scotland) at which it was made clear that when glucose was ordered on an N.H.S. prescription it should be dispensed and would be paid for. He had secured a definite ruling from the Department of Health for Scotland that any drugs ordered on National Health Service prescriptions would be allowed and paid for; appliances would, however, have to be supplied strictly according to the schedule in the Regulations. Prescriptions written on infirmary forms would not be allowed, as the doctor in such a case was not a contractor under the National Health Service Act.

A Farewell Occasion

The Chairman said that that was the last Executive meeting at which Dr. Tait would appear in his official capacity as Resident Secretary. Dr. Tait had given fifty-seven years' service to the Society, and the Executive was planning to give him a complimentary dinner on October 13. He asked for the Executive's appreciation of Dr. Tait's services to be recorded in the minutes. Mr. A. Murray associated himself with the chairman's remarks.

It was agreed that the Executive should be described as "Executive of the Scottish Department." Drs. Tait and McCall represented the Department at the recent annual conference of the Society of Chemical Industry in Edinburgh (see *C. & D.,* July 24, p. 101).

PUBLICATION OF RESEARCHES

New types of scientific *précis* journals may be the outcome of a recommendation to be made by the recent Scientific Information Conference of the Royal Society (see *C. & D.,* June 26, p. 832), for it has recommended that the Royal Society should consult editors of scientific journals to ascertain whether *précis* journals published by groups of already existing journals in certain fields would be of value and whether the scheme would be supported by the editors.

Support from Dominions

The recommendation as submitted met with particular support from certain Dominion delegates. In the general recommendations put forward by the section of the Conference investigating the publication and distribution of research papers, stress is laid on the need for proper preparation by authors of their material. Editors and others responsible for handling papers in draft form are urged to ensure that material is published only on its merits as scientific information. Members of the section voiced their disapproval of scientific papers written for "pot-boiling purposes" or for seeking promotion. A further recommendation appeals to those responsible for deciding on appointments, promotions, etc., not to use "the amount of space in learned Societies' periodicals occupied by a candidate's writings" as a measure of merit. Professor J. D. Bernal, F.R.S., editor of the section, described the recommendations and conclusions at a session on June 29 as "significant" and "completely justifying its deliberations." On chemical notation, the Conference recommended that machinery should be established without delay for evaluating the various systems to which publicity had recently been given.

BUSINESS CHANGE

Mr. James Bealby, M.P.S., has removed to 6 Belle Vue Road, Saltash, Cornwall.

LEWIS'S DISPENSATORY

By Adest

IN the eighteenth century apothecaries and dispensing chemists were served by a succession of dispensatories, under which term may be included a few books similar in content though otherwise described. The names of Bate (with his translator Salmon), Quincy, Fuller, Pemberton and James are familiar to students of pharmaceutical history. It seems strange that so little is now heard of the dispensatory which in the second half of the century was the most popular—or at any rate the most frequently printed—that of William Lewis. He matriculated at Oxford in 1731, took his M.B. degree there ten years later, and in 1745 became a Doctor of Medicine and a Fellow of the Royal Society. His Dispensatory, first published in 1753, was preceded by "A Course of Practical Chemistry" (1746), founded on George Wilson's "Compleat Course of Chymistry" (1699), and was followed by "An Experimental History of the Materia Medica" (1761). On the title-page of each book he used the initials M.B. Lewis practised medicine in London and at Kingston-on-Thames. He died in 1781. After his Dispensatory had run through at least three editions in London, it appeared in Edinburgh in 1786 under the title "The New Dispensatory . . . Being an Attempt to collect and apply the Later Discoveries to the Dispensatory published by W. Lewis, M.B., F.R.S. . . . By Gentlemen of the Faculty at Edinburgh." The editor was A. Duncan, who afterwards renamed the work "The Edinburgh New Dispensatory." His revision was thorough.

Systematic Arrangement

Lewis undertook his task methodically. His subtitle names the five parts into which the Dispensatory is divided, and ends: "The Whole interspersed *With Practical Cautions and Observations.* Intended as a CORRECTION, and IMPROVEMENT of QUINCY." The preface contains a blunt criticism of current books of the same class:—

> "The reformation which the pharmacopœia of London has undergone, has not been equally followed by those who have built upon it. Many obsolete and absurd compositions are still retained by them all . . . and so much foreign matter, and ridiculous stories, interwove [*sic*], as if the compilers endeavoured to recommend their books by their bulk, rather than by any new and useful matter."

His own book, comprising 708 pages, consists of (1) introduction (describing apparatus, processes and so forth); (2) materia medica; (3) Pharmacopœia Officinalis; (4) Pharmacopœia Extemporanea; (5) Pharmacopœia Pauperum. The fifth section is described as "containing a Collection of cheap and efficacious MEDICINES, made use of in the Hospitals of LONDON and EDINBURGH, and the ARMY." Some of these medicines—for instance, Spiritus Lavendulæ Compositus—do not look very cheap. The definition of "pharmacy" in the introduction is a medical practitioner's rather than a pharmacist's: "Pharmacy is the art of preparing and compounding natural substances for medicinal purposes; in a manner suitable to their respective properties, and the intentions of cure."

Current Opinions

By the standards of his age, Lewis was an enlightened practitioner. He saw—to take an obvious example—the improbability of deriving any satisfaction from prescribing bezoar. He wrote: "The stones examined by Slare as oriental bezoar did not dissolve in acids; those which Grew and Boyle made trial of did." A similar contradiction, it appears, resulted from testing with rectified spirit. Bezoar, he concluded, "cannot be considered in any other light than as an absorbent; and is much the weakest of all the substances of that class."

Bismuth, it may be remembered, was regarded with suspicion by eighteenth-century prescribers. Possibly, even probably, the metal was impure. In the Dispensatory we read that "a calx and flowers of this semimetal have been recommended as similar in virtue to certain antimonial preparations; but are at present of no other use than as a pigment or cosmetic." In the second edition (1768) of his book on materia medica, Lewis gave a more definite opinion:—

> "The white flowers sublimed from this metal, and the white magistery precipitated by water from its solution in aqua fortis, have been recommended [externally and internally] . . . it is not certain what their real effects are, or even whether they are safe. At present, they are employed only as a fucus, nor is this use of them entirely innocent;

for they gradually impair the natural complexion, and . . . occasion a thickness and defedation of the skin."

Of musk he wrote that it "has been for some time pretty much out of use, even as a perfume, on a supposition of its occasioning vapours, etc., in weak females, and persons of a sedentary life." On the other hand he quoted Dr. John Wall as an advocate of its value in certain cases, adding: "I have . . . sometimes increased the dose as far as twenty grains every four hours, with two or three spoonfuls of the musk julep between."

The gradual transition from "Fiat julapium" to "Fiat mistura" in prescriptions was occurring about the time the Dispensatory appeared. One of the headings is: "Mixtures; including juleps, draughts, and emulsions." This section comprises fifteen juleps, seven draughts, three mixtures and one emulsion: the mixtures measure respectively about ℥ij., ℥vj., and ℥vj. In the 1786 New Dispensatory the number of this group of preparations was considerably increased. A new definition of "mixture" was given:—

> "A *Mixture,* more strictly so called, receives more efficacious materials, whether soluble in water, as extracts or salts, or indissoluble, as powders; more regard being here had to the medicinal intention than to the sightliness or palatableness of the compound. There is indeed no precise distinction between the two [mixture and julep] . . ."

As has been indicated, Lewis's work received extensive rearrangement and addition in the Edinburgh version. One fact mentioned in it is worth recording here. In preparing Baumé's extract of opium, the ingredients were boiled together for three months if boiling was continuous, or for six months if the process was stopped at night. The selling price of the extract was not stated.

VETERINARY ABSTRACTS

DDT and Sheep Blue-Fly. — On examination of some 3,000 sheep treated with DDT and arsenical dips against blue-fly, Stamp and others ("Veterinary Record," July 10, p. 335) conclude that the DDT appeared to have some advantage over arsenic on clean sheep but to be incapable of giving efficient protection to dirty animals.

Polyarthritis in Suckling Pigs.—Chapman ("Veterinary Record," 1947.II.626) reports that Sulphamezathine [sulphadimethyl pyrimidine] had a marked curative effect on piglets affected by an outbreak of polyarthritis (navel-ill). Doses of 15 mils of a 16 per cent. solution subcutaneously once daily were tolerated; 30 mils caused severe toxic symptoms. Higher, and more frequent, dosage was fatal.

Sulphanilamide Treatment of Bovine Mastitis.—During a ten-month experiment on a herd of fifty-five cows using intramammary injections of a 30 per cent. sulphanilamide emulsion against *Str. agalactiæ* infection, Edwards ("Veterinary Record," January 31, p. 45) found that the infection rate was reduced in milking cows from 63 per cent. to 5 per cent. At the end of the experiment, however, the herd was not clear of infection, despite continuous therapy to all newly-infected cows.

Penicillin in Cattle. — Kelly and Bell "Veterinary Record," 1947.II.591) have investigated the absorption, distribution and excretion of penicillin in cattle after administration parenterally or by infusion into the udder. Incorporation of the penicillin in oil and wax, and in sulphanilamide lactoside, or formaldehyde sulphoxylate was found to delay only slightly the excretion of penicillin administered by injection. For maintaining an adequate level of penicillin in the blood, the authors suggest a dose of two mega units eight-hourly. Penicillin persisted in the lactating udder after intramammary infusion in various vehicles for at least fourteen hours. The drug did not pass into the milk after parenteral injection or into the blood after intramammary infusion.

Veterinary Use of Pethidine.—Pethidine is found by Archer ("Veterinary Record," 1947.II.401) to be a "useful analgesic for many conditions especially those associated with spasm of smooth muscle" in veterinary investigations. In large animals, the analgesic effect is developed "within a few minutes" of dosing by the intravenous route, or after 15-25 minutes by the intramuscular route. For horses, the dose varied considerably. Up to 1,000 mgm. could be given without signs of dizziness, but no more than 500 mgm. had been given intravenously. Pethidine had also been used with success in the calving of heifers, and was of value in colic in small animals, although of little use in rheumatoid conditions. Analgesic doses of 10 mgm. for a terrier; 200-400 mgm. for a horse; and 300-600 mgm. for a cow, by injection, are recommended.

BUSINESS QUERIES AND ANSWERS

Subscribers are invited to address inquiries to the Editor on problems of management, accounts, stock-keeping, taxation. To ensure that no information of a confidential nature is disclosed to a competitor, replies will be given under initials or a pseudonym. If it is necessary to forward documents, copies only and not originals should be sent.

Reserving for Bad Debts and Discounts

"An examination of our lists of balances shows that items owing and amounting to £80 17s. 8d. at June 30 must be regarded as irrecoverable. Our bad debts account amounts to £65 11s. 3d., representing items written off during the past year, and reduces the book debts to £423 3s. 2d. I should like to make a reserve for bad debts, and for discounts (our average discount is 2 per cent.), and should be glad if you would show a method of recording the reserves and of showing the actual position in the balance sheet.—P. C."

From the particulars given, the accounts should be made up as follows:—

Bad Debts Account

Dr. 1948		£ s. d.	1948		£ s. d.	*Cr.*
June 30	To balance	65 11 3	June 30	By transfer to profit & loss	146 8 11	
June 30	,, reserve for bad debts	80 17 8				
		£146 8 11			£146 8 11	

Discounts Account

Dr. 1948			1948			*Cr.*
June 30	To reserve for discounts on sundry debtors	£6 16 11	June 30	By transfer to profit & loss	£6 16 11	

The sundry debtors should be shown on the assets side of the balance sheet as follows:—

	£ s. d.	£ s. d.
Sundry Debtors	423 3 2	
Less Reserve for bad debts ...	80 17 8	
	342 5 6	
Less Reserve for discounts ...	6 16 11	
		335 8 7

Registration of Business Name

"I am starting up in business as a retail chemist and understand that certain matters have to be complied with in regard to registration of name."—M.M.Z.

It is necessary to apply for registration, and a signed statement should be posted or delivered to the Registrar within the specified period, giving the business name, the general nature of the business, the nationality of the applicant, the usual place of residence, a description of any other business occupation, the date of starting up in business, and any other business name or names under which business is being carried on. All subsequent changes in any of these details must also be registered, and any person can inspect the register. An Act is in operation forbidding the carrying on of business under an assumed name without disclosing the real name of the proprietor, or the names of the partners. The names and nationality of partners should be shown on all business communications, circulars and price lists, and it is usually advisable to trade under a style that is descriptive of the proprietor or individual partners.

Guard Book

"We paste all invoices received from suppliers into a large book made of cartridge paper, and which we call the Guard Book, and I would like to know whether the keeping of a separate bought day book is really necessary."—I.V.

If the pages of the Guard Book are folioed and ruled with a money column down the right-hand margin, the net cost prices of the trade purchases can be extended and the amounts posted direct to the credit side of the suppliers' personal accounts opened in the ledger. This arrangement may facilitate references to details, but as a rule it is better to keep a separate purchases book.

HALF-YEAR'S TRADE

Statistics Compiled from the Trade and Navigation Accounts

Half-yearly Total	*Imports*	*Exports (U.K. Goods)*	*Total Exports*
1948 ...	£1,025,741,528 ...	£743,537,451 ...	£774,779,679
1947 ...	£820,500,631 ...	£514,593,191 ...	£550,560,293
1938 ...	£459,754,467 ...	£235,377,660 ...	£266,139,983

Description	Imports January-June		Exports January-June	
	1948	1947	1948	1947
	£	£	£	£
Chemicals, drugs, dyes, etc. (group total)	15,900,101	11,376,116	40,105,594	31,032,823
Disinfectants, insecticides, weed killers, cattle dressings, etc. ...	—	—	2,042,256	1,498,311
Glycerin	—	—	29,492	64,286
Iodine	187,323	105,032	—	—
Cream of tartar	—	—	18,125	55,123
Spirits (perfumed)	—	—	326,831	313,062
Drugs and medicines (manufactured) total	614,721	852,203	7,678,690	6,732,467
Proprietary medicines	411,788	463.744	2,445,192	2,480,363
Quinine and quinine salts ...	27,739	184,705	180,273	106,986
Menthol	125,711	89,919	—	—
Aspirin	—	—	126,232	224,495
Penicillin	—	—	1,049,104	446,082
Insulin and its salts	—	—	167,138	131,330
Ointments and liniments ...	—	—	288,252	238,043
Drugs, etc., raw or simply prepared ..	683,110	1,149,088	—	—
Cinchona bark	56,463	83,671	—	—
Ipecacuanha and other roots ...	166,165	337,002	—	—
Cod-liver oil	22,347	12,533	234,011	259,143
Olive oil, refined	444,390	95,816	—	—
Essential oils, natural	1,276,650	1,556,643	178,348	100,108
Toilet soap	—	—	491,134	180,961
Perfumery and toilet preparations, excluding spirits, essential oils and soap (total)	32,213	164,220	1,593,024	1,521,778
Dental preparations, etc.	—	—	332,901	201,116
Cosmetics	—	—	491,501	659,233
Toilet requisites (excluding brushes) ...	15,892	30,471	76,685	65,888
Shaving brushes	—	—	41,087	66.834
Tooth and denture brushes ...	—	—	66,717	106,043
Hair and other toilet brushes ...	—	—	155.424	160,127
Cameras and cine apparatus	90,430	132,197	425,311	213,873
Medical and surgical instruments, etc. (except optical)	38,993	44,664	309,904	279,013
Adhesive plasters, etc.	—	—	310,882	262,585
Other druggists' wares (unspecified) ...	—	—	246,942	193,534
Bandages	—	—	114,066	142,839
Cotton wool and gauze tissue ...	—	—	169,969	195,829
Chemical glassware	—	—	308,365	221,647
Chemical machinery	54,779	81,144	763,030	367,494

RE-EXPORT totals for the half-year were: Chemicals, drugs, dyes, etc., £426,301 (1947, £300,056); manufactured drugs and medicines, £216,695 (£120,100); drugs, raw or simply prepared, £224,630 (£228,704); essential oils, £87,810 (£95,281); gums, acacia and tragacanth, £160,570 (£61,689); cod-liver oil, £894 (£38,270).

TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale quantities of standard quality. Prices of crude drugs and essential oils vary as to brand or grade.

28 Essex Street, W.C.2, July 28

MORE definite signs of improvement in home trade in PHARMACEUTICAL CHEMICALS are now apparent. Several factors have influenced the pronounced lull of recent months, one being the inauguration of the National Health Service which was expected to disturb to some extent the pattern of trade. It is not yet possible to estimate all the changes which will result from the new demands on the trade, but it is thought in many quarters that business will be greatly increased when, with the approach of the autumn months, the new Service gets into its stride. Meanwhile, the sudden return of warmer weather has caused an increased inquiry for INSECTICIDE CHEMICALS and for CALAMINE and other products for use in sunburn alleviating preparations. Prices generally show little change. ACETANILIDE is fractionally easier. AMPHETAMINE prices for base and sulphate have been reduced by 20s. per lb., making the new price for 1-cwt. lots, 120s. per lb. English-refined CAMPHOR is one shilling per lb. cheaper; the quotation for 1-cwt. is now 8s. 3d. per lb. TERPINEOL prices have been reduced by sixpence per lb. for both B.P. and perfumery grades.

Crude Drugs

The markets for BOTANICAL DRUGS continue quiet. Prices are little changed on the week. A small quantity of CANADA BALSAM for microscopic work is being offered at 20s. per lb. TOLU BALSAM is slightly easier on the spot. ERGOT is now becoming scarce; spot fumigated material is offered at 3s. 9d. per lb. Few offers are being made on the other side of Jamaican GINGER and holders of spot goods have advanced their prices. There is a complete absence of black and white PEPPERS (WHOLE) and the ground material on spot is commanding high prices. Few holders of SENEGA are now prepared to sell at under 11s. per lb.; shipment prices of new-crop are at 9s. 6d., c.i.f. Importers of HONEY report that although it is still early to forecast the size of the Australian crop there are indications of an increase in production. U.K. imports of Australian honey for the year ended June 30 totalled 6,655 tons. Recent arrivals of common round RHUBARB are of good quality, although there is still a remnant of wormy material in merchants' hands. In the GUM and WAX markets, prices are stationary.

Essential Oils

There have been few notable features in the ESSENTIAL OILS market during the week under review. It is difficult to obtain shipment offers of Java CITRONELLA and the spot market is inclined to strengthen. Prices generally, however, are unchanged. Home consumers are said to be well stocked and export inquiry is relatively small. There are now good supplies of OLIVE OIL reaching the trade; imports in June were a post-war record—17,669 cwt. (£255,168), compared with 19,669 cwt. (£462,350), the total for the whole of 1947.

U.S. Drug and Chemical Report

New York, July 23

THE only price movement in the FINE CHEMICALS and DRUGS market last week was a five cents decline in the quotation for MENTHOL bringing the new range to $9.50-$9.75 per lb. The reduction is entirely attributable to the lack of demand, and any substantial inquiry would be followed by a sharp upward adjustment in line with higher ideas of value in Brazil. There is very little demand for MERCURY and bids below the current inside figure of $75 per flask would be accepted in the case of a large order. The market is virtually flooded with supplies. A strike at the plant of a SALICYLATE and BROMIDE manufacturer will result in tightness of supplies in the coming months unless a settlement is quickly reached. Consumers are expected to enter the market for their winter requirements in the near future. Deliveries of synthetic GLYCERIN are expected to start early next month against contracts. Meanwhile, the market for natural glycerin remains firm and no change in current price levels is expected for at least a month.

Forward buying was again absent from the BOTANICAL DRUGS, SPICE and GUM markets last week. Depression of price levels is common and it is clear that a new market position was being established for all the materials constituting the botanical drug market. Price declines were not so numerous as in recent weeks, however. IPECACUANHA declined five cents per lb. to $4.90 on the inside—a price which it was thought would be shaded in the case of a substantial order. Spanish SAFFRON was $2.50 lower at $26.00, and here also it was stated that a substantial order would bring a slight shading of the price.

Inquiry for CITRUS OILS has increased as a result of the recent hot weather but other ESSENTIAL OILS were reported meeting with very little demand. The week's price movements—all declines—included a reduction in SPEARMINT from $6.75 per lb. to $6.50. On the other hand, it is reported that foreign shippers of LIME OIL are holding for better prices.

Pharmaceutical Chemicals

ACETANILIDE.—Quotations for 1-cwt. lots in kegs are 2s. 4½d. per lb. for crystals and 2s. 5½d. per lb. for powder. The supply position shows some improvement.

ADRENALINE.—B.P. is quoted at from 5s. 6d. to 6s. per gm. for natural and from 1s. to 2s. 6d. for synthetic; racemic is quoted at 2s. per gm.

BARIUM SULPHATE, B.P. (*x*-ray).—Prices are unchanged. 1 cwt. is quoted at 1s. 3d. per lb. Schedule rates per lb. (containers in brackets), for quantities between 28 lb. and 1 cwt. are as follows: 1s. 8d. (1-lb.), 1s. 7d. (2 lb.), 1s. 6½d. (4-lb.) 1s. 5½d. (7-lb.), 1s. 5d. (14-lb.), 1s. 4d. (28-lb.).

BENZOIC ACID.—Supplies continue to improve. Makers' quotations are at from 2s. 7d. to 3s. per lb. for B.P., with technical grade at 2s. 6d. to 2s. 8d. SODIUM BENZOATE is unchanged at 2s 5d. to 2s. 8d.

CALAMINE.—B.P.C. quality is quoted at prices from 1s. 2d. to 1s. 10d. per lb.

CALCIUM GLUCONATE. — Makers' quotations are at 3s. 1d. per lb. for 1-cwt. lots.

CARBROMAL.—Importers' quotations are at 45s. per lb. Continues in short supply.

CHLORAL HYDRATE.—Current rates per lb., for the home trade, are as follows: 1-cwt. lots, 4s.; 56-lb., 4s. 2d.: 28-lb., 4s. 4d.

CHLOROFORM.—Current rates are as follows: 1-cwt. lots in winchesters, 2s. 11d. per lb.; 56-lb. lots, 3s. 2½d. per lb.; in drums, 3s. 1d. and 3s. 1½d. per lb. respectively.

CITRATES.—Makers' rates are unchanged. POTASSIUM, 5-cwt. lots, 2s. 10½d. per lb.; 1-cwt., 2s. 11½d.; scheduled prices for quantities of 28 lb. to 1 cwt. per lb. are (containers in brackets): 3s. 9½d. (1-lb.); 3s. 8d. (4-lb.); 3s. 7d. (7-lb.); 3s. 6½d. (14-lb.); 3s. 5½d. (28-lb.); IRON AND AMMONIUM CITRATE, B.P., 7d. per lb. more; SODIUM, B.P., 3d. per lb. less; powder, 1d. per lb. extra.

CITRIC ACID, B.P. — Makers quote 1s. 5½d. to 1s. 7½d. per lb., less 5 per cent., for 1-cwt. lots, delivered in the United Kingdom.

CREAM OF TARTAR.—Supplies of British-made material are described as adequate. Current rates for the home trade are as follows: 10-cwt. lots, 153s. per cwt.; 5 to 10-cwt., 154s.; less than 5-cwt. and more than 2-cwt., 155s.; less than 2-cwt. and more than 1-cwt., 157s.

DIAMORPHINE.—Prices are unchanged. Home trade rates per oz. are: ALKALOID, ½ oz., 54s. 6d.; 1 oz., 52s.; 2 oz., 50s. 6d.; 3 oz., 49s. 9d.; 4 oz., 49s. 6d. HYDROCHLORIDE, ½ oz, 50s. 3d.; 1 oz., 47s. 9d.; 2 oz., 46s. 3d.; 3 oz., 45s. 6d.; 4 oz., 45s. 3d. per oz.

ETHYLMORPHINE.—Current rates per oz., in the home market, are: ALKALOID, ½ oz., 57s. 6d.; 1 oz., 55s.; 2 oz., 53s. 6d.; 3 oz., 52s. 9d.; 4 oz., 52s. 6d. HYDROCHLORIDE, ½ oz., 49s.; 1 oz., 46s. 6d.; 2 oz., 45s.; 3 oz., 44s. 3d.; 4 oz., 44s.

GLYCERIN, B.P.—Prices are unchanged. Current rates per cwt. are as follows:—

Contracts or spot lots of	Under 1 cwt.	1 cwt. and under 2½ cwts.	2½ cwts. and under 5 cwt.	5 cwt. and under 10 cwt.	10 cwt. and under 20 cwt.
Minimum deliveries off contract of	—	1 cwt.	1 cwt.	1 cwt.	2 cwt.
Tins:	s. d.	s. d.	s. d.	s. d.	s. d.
14-lb. ..	156 6	152 0	151 0	148 0	147 0
28-lb. ..	153 6	149 6	148 6	145 6	144 6
56-lb. ..	150 6	147 0	146 0	143 0	142 0
Drums:					
1-cwt. ..	—	136 0	135 0	132 0	131 0
2½-cwt. ..	—	—	133 0	130 0	129 0
5-cwt. ..	—	—	—	129 6	128 6
10-cwt. ..	—	—	—	—	128 0

1 ton and under 5 tons (minimum deliveries off contract of 5 cwt.), 14-lb. tins, 143s.; 28-lb., 140s. 6d.; 56-lb., 138s., 1-cwt. drums, 127s.; 2½-cwt., 125s.; 5-cwt., 124s. 6d.; 10-cwt., 124s. 5 ton and upwards (minimum deliveries off contract of 10-cwt.), 14-lb. tins, 141s. 6d.; 28-lb., 139s.; 56-lb., 136s. 6d.; 1-cwt. drums, 125s. 6d.; 2½-cwt., 123s. 6d.; 5-cwt., 123s.; 10-cwt., 122s. 6d. Extra charges are levied for smaller deliveries, ex contract, from 6d. to 2s. per cwt., according to quantity. Refined pale straw industrial glycerin is 5s. per cwt. less than chemically pure. Terms: Carriage and delivery paid. A discount of 2½ per cent. is deducted if paid in one month, or on buyers' regular monthly pay day in the month following delivery; afterwards, net. Tins and cases free (not returnable). Drums loaned and invoiced at sellers' current rates and credited in full if returned within four months, carriage forward and in good condition.

GUAIACOLS. — Improved supply is expected; liquid, 14s. 6d. to 16s. per lb., and crystal and carbonate, 14s. to 15s. per lb., according to quantity.

METOL.—Rates for bulk quantities are as follows: 10-cwt., 19s.; 5-cwt., 19s. 6d.; 1-cwt., 20s.; 28-lb., 21s.; 14-lb., 23s.; 7-lb., 24s. per lb. Carriage paid in the United Kingdom.

PHENOLPHTHALEIN. — Manufacturers' prices per lb. are as follows: 1-cwt. lots, 6s. 1d.; 28-lb., 6s. 3d.; 14-lb., 6s. 6d.

PIPERAZINE.—Current prices are from 4s. 6d. per oz., according to quantity.

SULPHANILIC ACID, B.P.C. — Current quotations are around 6s. per lb.

SULPHONAL—Prices are from 44s. to 53s. per lb.

TANNIC ACID.—Supplies are fairly free. B.P. levis is from 8s. 9d. per lb.; ether soluble, from 9s. per lb.

Crude Drugs

AGAR.—Quotations for strip are unchanged at from 17s. 6d. to 18s. 6d. per lb., duty paid, as to quality; forward, 15s. to 16s., c.i.f.

ALOES.—Cape is offering at 120s. per cwt.; forward, 116s. to 120s., c.i.f., as to quality. Curaçao in boxes is quoted at 210s. per cwt.; shipment, 200s., c.i.f. Socotrine is offered at 160s. to 180s. per cwt., spot.

ARECA NUTS.—Ceylon is quoted at from 65s. to 67s. 6d. per cwt., spot; to arrive, 50s., landed.

ASAFETIDA.—Persian block is offered at £22 10s. to £24 per cwt., spot, with prices of Indian at £15.

BALSAMS.—A small supply of *Canada* is offered at 20s. per lb., spot. Pará *Copaiba*, soluble, is valued at 5s. per lb., spot. *Peru*, San Salvador, 5s. 6d., duty paid. Prices of Tolu are lower at 17s. 6d. per lb.

BAY LEAVES.—Quotations are unchanged at 11d. to 1s. per lb., duty paid.

BENZOIN.—Sumatra block, spot, from £15 to £17 per cwt., as to quality.

BISMUTH.—Metal is quoted at 11s. per lb. for quantities of 5 cwt.

BUCHU.—New-crop, short rounds, spot, 4s. per lb.; shipment, 3s. 8d., c.i.f.; ovals, old-crop, from 3s. 9d., spot.

CAMPHOR.—Chinese tablets offered at 9s. 9d. to 10s. 9d. per lb., duty paid; refined powder (B.P.), 8s. to 8s. 6d., with B.B. grade, 7s. 6d.; crude powder, 6s. 6d.

CANTHARIDES. — Spot quotations for Chinese are from 9s. 6d. to 10s. per lb., duty paid.

CARDAMOMS. — Mangalore half-bleached A's are 9s., spot: B's, 8s., seeds, 7s. 9d. Aleppy seeds, 8s. 6d. to 9s. per lb. Aleppy greens, 7s. Ceylon seeds, 7s. 9d. per lb.

CASCARA SAGRADA.—Quiet. Spot quotations are from 200s. to 240s. per cwt.; new-crop forward is valued at 200s., duty paid.

CASCARILLA.—A dull market. Quills, 1s. 6d. to 1s. 7d. per lb., spot, siftings, 1s. 5d. to 1s. 6d.

CASSIA PODS (*C. fistula*).—East Indian, 65s. per cwt., ex wharf.

CINNAMON.—Ceylon on spot is offering as follows: 0000, 3s.; 000, 2s. 10d.; 00, 2s. 8d.; 0, 2s. 6d.; firsts, 2s.; seconds, 1s. 11d.; thirds, 1s. 10d.; fourths, 1s. 9d.; quillings, 1s. 5d., featherings, 1s.; chips, 6d. per lb.

CLOVES.—Zanzibar on spot is quoted at 9d. to 9½d. per lb.; shipment, 1s., c.i.f. Madagascar, shipment, 7½d., c.i.f. Penang on spot is quoted at from 2s. 10d. to 3s. per lb.

ERGOT.—Portuguese is scarce on spot; sound material is worth 4s. per lb. with fumigated offered at 3s. 9d. to 3s. 10d.; shipment, 4s. 1d., c.i.f.

GAMBOGE.—Quiet and steady. Sian pipe, spot, £50 per cwt., duty paid.

GENTIAN.—Quiet. French natural i quoted at 62s. 6d. to 65s. per cwt., spot.

GINGER.—African on spot is quoted a from 74s. to 75s. per lb.; new-crop, July August, 71s., c.i.f. Jamaica is firmer; No 1, quoted at 120s. to 125s.; No. 2 117s. 6d.; No. 3, 115s. per cwt., spot.

GUAIACUM RESIN.—Quotations for lum are from 2s. 9d. to 3s. per lb., spot.

GUM ACACIA.—Steady. Kordofan cleane sorts, offered at 65s. per cwt., ex stor London; shipment, 59s., c.i.f. Bleache No. 1, 135s., ex store; to arrive, 120s. c.i.f. Talha, 45s., ex warehouse; to arrive 42s., c.i.f. Imports in June totalled 3,218 cwt. (£10,830).

IPECACUANHA.—Nicaraguan on spot i offering at from 24s. 6d. to 25s. per lb. afloat, 23s., c.i.f.; for shipment, 22s. 6d. c.i.f.

IRISH MOSS.—French select bleached is quoted at 120s. per cwt.; No. 1, 105s. No. 2, 95s. per cwt.

JALAP.—Vera Cruz, spot, from 3s. 5d. to 3s. 9d. per lb., as to test (15 to 17 per cent resin). Brazilian (13 per cent.), 1s. 6d per lb., spot.

KARAYA.—No. 1 gum is offered at 210s., and No. 2 at 180s. per cwt., spot. June imports totalled 492 cwt. (£3,635).

LIQUORICE.—Anatolian natural root on spot is offering from 47s. to 50s. per cwt., as to holder; Syrian, 42s. 6d. Italian block, 375s. per cwt., spot; Italian stick is in good demand at £385 to £525 per ton, as to quantity and grade. Turkish block is available at from 240s. per cwt.; Syrian block, to come forward, 405s., duty paid.

MACE.—West-Indian blade, on the spot, is quoted at 7s.; pickings, 4s. 6d. to 5s. 6d. per lb., according to quality.

MENTHOL.—Quiet. Brazil on spot is offered at from 45s. 6d. to 48s. per lb., duty paid; 43s. 6d., in bond. Imports in June totalled 5,730 lb. (£10,984).

MERCURY.—Spot quotation continues at £15 per flask, ex warehouse; for shipment, £14, c.i.f. U.K.

MYRRH.—Aden sorts, £13 to £14 per cwt.; siftings, £6 10s. to £7 per cwt., spot.

NUTMEG.—West Indian 80's, on spot, quoted at 3s. 4d.; sound unassorted, 2s. 11d.; wormy and broken, 1s. 8d.

NUX VOMICA.—Madras, on spot, is steady at 40s. to 42s. 6d. per cwt.; Mangalore, 40s.; Cochin, 42s. 6d. to 45s., spot.

OLIBANUM.—Fair to good drop, from 200s.; pea size, 200s.; good garblings, 160s.; seeds, 170s.; siftings, 95s. per cwt.

ORANGE PEEL.—Spanish quarters, 1s. 2d. to 1s. 5d., spot; sweet ribbon is quoted at 1s. 9d.; bitter ribbon, 1s. 6d. to 1s. 9d. per lb., nominal.

PAPAIN.—East African No. 1 is offered t 25s. per lb., spot; Ceylon, 20s.

PIMENTO.—Spot is quoted 1s. 2d. per b.; to arrive, 119s. per cwt., c.i.f.

PODOPHYLLUM.—American (*peltatum*) is ffered spot London at 300s. per cwt.; ndian (*emodi*). 320s. to 340s.

PSYLLIUM SEED.—French black, 2s. 3d. er lb., duty paid; Indian (isphagula), 20s. per cwt., spot.

QUASSIA.—Price of chips is unchanged t 37s. 6d. per cwt., spot.

QUILLAIA.—Natural bark is offering at bout 105s. per cwt., spot; crushed, 130s.

QUINCE SEEDS.—Cape on spot is quoted t from 4s. 3d. to 5s. per lb.

RHATANY. — Demand is small. Spot alues are steady at 9d. per lb.

RHUBARB.—Chinese rough-round is offering at from 4s. 3d. to 4s. 9d. per lb., spot. A few wormy parcels are offered at lower rices.

SANDARAC.—New-crop on spot is offered t 5s. 2d. per lb.; old-crop, 4s. 9d., ex tore; to arrive, 4s., c.i.f.

SARSAPARILLA.—Jamaican native red is asier at 2s. 3d. per lb., spot.

SEEDS.—ANISE.—Cyprus is quoted at s. 6d. per lb., and Turkish at 1s. 5½d. per b., duty paid. both spot London. CARAWAY.—Dutch is in more demand; 105s. per wt., duty paid London, now quoted. CELERY.—Indian remains quiet at 1s. 3d. er lb., spot London or Liverpool. CORIANDER.—Market is unchanged. Argentine s offered at 42s. 6d. per cwt., duty paid, pot London; splits, offered at 32s. 6d. per wt., duty paid, spot London or Liverpool. CUMIN.—In poor demand. Indian is offered at 210s. per cwt., ex warehouse Liverpool or Hull; Cyprus is offered at 212s. 6d. per cwt., spot London. DILL.—Indian is firm at 47s. 6d. per cwt., spot London, and 46s. 6d. in Liverpool. FENNEL.—Indian is quiet; 72s. 6d. per cwt. is quoted in London, and 70s. per cwt., spot Liverpool. FENUGREEK.—Indian remains firm; 50s. per cwt., spot London, now quoted; for shipment, prices are from 55s. to 60s. per cwt., c.i.f. London.

SENEGA.—Most holders are now asking 11s. per lb. but there are sellers at 10s. 6d.; forward, 9s. 6d., c.i.f.

SHELLAC.—Spot quotations, ex warehouse, London. F.O.T.N. pure, 330s.; F.O. Standard 1, 340s.; fine orange, 350s. to 390s. per cwt.

TRAGACANTH.—Quiet. Selected white ribbon, spot, £100 per cwt.; other white grades, from £55 to £97; pale leaf, £35 to £50; amber, £23 to £33; red, £14 to £20; hoggy, £5 to £11. June imports totalled 1,113 cwt. (£23,392).

TURMERIC.—Madras finger on the spot is quoted at 110s. per cwt.

Essential and Expressed Oils

ALMOND.—Sweet oil, 8s. to 9s. per lb. Bitter essential oil is quoted from 30s. to 45s. per lb., as to quality and seller.

CAMPHOR.—White oil on the spot is quoted at 2s. 9d. per lb., duty paid.

CASSIA. — Spot quotations are from 13s. 9d. to 15s. per lb.

CINNAMON.—B.P. oil, 60s. to 70s. per lb. Bark oil is available at 12s. per oz. Leaf oil, on the spot, is at from 7s. 9d. to 9s. per lb.

CITRONELLA. — Ceylon is offering at 3s. 6d. per lb., spot, and 3s. 3d., c.i.f. Java on spot is 8s. per lb.; 6s. 3d., nominal, c.i.f.

CLOVE.—Quotations for English-distilled bud oil are at from 10s. 6d. to 12s. per lb., according to quantity.

LIME.—Lime is offered at from 27s. to 30s. per lb., according to quantity.

NUTMEG.—English-distilled oil is priced at from 39s. to 40s. per lb.

OLIVE.—Importers' rate is 29s. 8d. per gall. of 9 lb. Wholesalers' prices are: 1 pint, 5s. 6d.; 2 pints, 10s.; ½ gall., 19s.; 1 gall., 37s. 6d.

ORANGE.—Sicilian bitter, for shipment, is quoted at 13s. to 13s. 6d. per lb., c.i.f.; nominal spot, 15s. to 16s. Jamaican, 15s. 6d., c.i.f.

PALMAROSA.—Supplies continue short on spot and prices are at 35s. per lb.; forward, 30s., c.i.f.

UNREFINED OILS.—The Ministry of Food announces reduced prices (per ton) for the four weeks ending August 28, as follows:—CASTOR, firsts, £170; seconds, £166. LINSEED, £185; firsts, £135. RAPE, Argentine, etc., £180; Chinese, £170.

World Mineral Industries

No. 8—Cobalt

THE following table gives principal producers of cobalt and their output (in cwt.).

PRODUCING COUNTRY	1938	1941	1944
Northern Rhodesia	28,762	14,902	18,891
Canada (c) ...	4,100	2,351	324
Burma (b) ...	4,034	2,100(d)	(a)
Australia ...	304	315	210
France ...	276	(a)	—
Belgian Congo	30,156	45,198	36,948
Morocco (French)	13,500	1,280	4,783
Mexico ...	17	(a)	(a)
United States	10	4,512	7,397
Boliva (exports)	—	30	—
Chile ...	(a)	49	100

(a) Information not available. (b) Estimated cobalt content of nickel-speiss exported. (c) Metal recovered from smelter products, plus cobalt contained in cobalt residues exported. (d) Nine-months' production.

TRADE MARKS

(*From "The Trade Marks Journal," July* 14).

"EMBELIX"; by May & Baker, Ltd., Dagenham; B657,444. "NILODIN"; by the Wellcome Foundation, Ltd., London, N.W.1; 659,177. "KALSODOZ"; by Westminster Laboratories, Ltd., London, W.C.2; 659,448. "TRIV"; by Trinity Laboratories, Ltd., Blackburn; 659,765. "PROCASENOL"; by Sharp & Dohme, Ltd., Hoddesdon; 661,203. "FERDONA"; by John Wyeth & Brother, Ltd., London, N.16; 660,275. For all goods (5).

"STERASCALP"; by Pin-up Cold Perm-Wave, Ltd., London, E.C.2; 657,612. For medicated preparations for use in treating the scalp (5).

"TIMOFAX"; by the Wellcome Foundation, Ltd, London, N.W.1; 659,176. For all goods, excluding medicated toilet paper (5).

"IRIS"; by Plastic Fashions, Ltd., Pontypridd; 657,807. For combs (21).

"ERIOPON"; by J. R. Geigy Aktiengesellschaft, Basle, 16, Switzerland; 658,954. For soaps (3).

"RAPHEX"; by British Schering, Ltd., London, W.1; 659,303. For weed- and vermin-killing preparations, etc. (5).

"MARABOU"; by Aktiebolaget Chokladfabriken Marabou, Sundbyberg, Sweden; 660,008. For medicated throat pastilles and lozenges (5).

"O.P." in monogram form; by Optikotechna, Spolecnost S. R. O. Prerov, Prerov, Czechoslovakia; B648,066. For scientific, photographic and optical apparatus, instruments and devices (9).

"AMPLIVOX"; by Amplivox, Ltd., London, W.1; 659,026. For electro-medical acoustic apparatus, etc. (10).

"COLOSYL"; by Industrial Colloids, Ltd., Broadheath, Manchester; 660,252. For detergents (3).

(*From "The Trade Marks Journal," July* 21)

"WETHERITE"; by British Paints, Ltd., Newcastle-on-Tyne; 658,937. "KETTOCRETE" and "KETOLITE"; by the Ketton Portland Cement Co., Ltd., Sheffield; 660,597 and 660,599. For industrial chemicals (1).

"UMUSOL"; by Frederick Charles Hyppolite Katon, Longdown, Exeter; B660,855. For fertilisers (1).

Device of hammer; by C. H. Hammerbeck, Pampisford, Cambs; 661,309. For anti-freezing preparations (1).

"HARPIC" on label design; by Harpic Manufacturing Co., Ltd., Hull; 659,170. For detergents for lavatory bowls (3).

"CARUS PRODUCT" with cross device and laurel spray (word "Carus" disclaimed); by Alexander Carus & Sons, Ltd., Darwen, Lancs; 660,512-13. For perfumes, cosmetics (not being toilet preparations) and hair lotions (3). For surgical dressings and menstruation appliances and underclothes (5).

"HEURE INTIME"; by les Parfums de Luxe, 416 Rue Saint-Honoré, Paris; 655,309. "MASQULAIRE"; by Norman Alfred Hill, London, S.W.2; 661,335. For non-medicated toilet preparations (3).

"SPLENYEAST"; by Splendor, Ltd., Nottingham; 660,434. For medicated preparations containing yeast (5).

"CYAGENE"; by Heitz Products Co., Ltd., Lo don, W.1; B655,299. "TABNET"; by Calmi Ltd., Crewe; B656,243. "BUKLEX"; by Joh Jesper Shingler, Birmingham; 660,392. "GARA GIN"; by Bayer Products, Ltd., London, W.C.2 661,491. "FEMSPRIN"; by Stablond Labora tories, Ltd., London, W.1; 661,526. For pha maceutical preparations and substances (5).

"NILIDINE"; by the Wellcome Foundation, Ltd London, N.W.1; 659,657. For all goods (5).

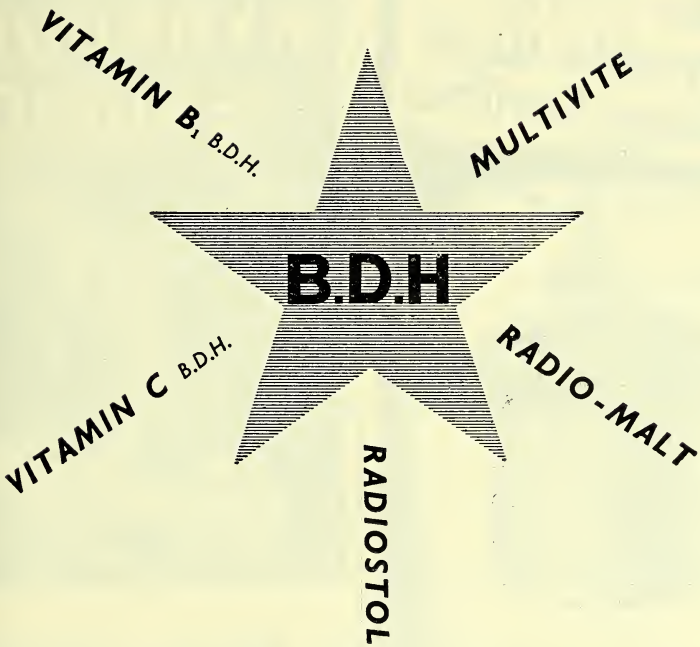
"CHIGO"; by Scaife & Sons, Rossendale, Lanc 658,169. For emulsions for use in the treatmen of hand and feet maladies and of skin com plaints (5).

FIFTY YEARS AGO

Trials of a Pharmacist

(*From the C. & D., July* 30, 1898).

JOSIAH GALEN sat in his easy chair wrap ped in reverie. From his haggard face an unkempt appearance an observer woul have concluded that he suffered fro great mental perturbation, and such was i truth the case. This was his last day in th drug trade, and little as he had cause t love it he could not now forbear to recal the bright hopes and lofty ambitions with which he entered it. He thought of the proud day when, having "scorned delights and lived laborious days," he had entered the Temple of Aesculapius, and had come out entitled to add to his name the mystic letters A.P.S.; he thought of the resolutions he had made; how he had intended to be a pillar and an ornament in his noble profession so that when he was, at last, gathered to his fathers his bust might be placed in some niche in the Aesculapium at Bloomsbury. For a while things went well with Josiah. . . But within the last year a series of misfortunes had come upon him which had left him in the state we have just indicated. [There followed an account of a series of unfortunate encounters with the Weights and Measures and Food and Drugs inspectors, and equally unfortunate experiences under the Pharmacy, Shop Hours, Workmen's Compensation and Dentists Acts.] And this is why Josiah Galen, as he sat in his easy chair, decided that the civilised freedom of England was too exciting for him, and resolved to seek more peace and monotony on the banks of the Yukon. [Thus escaping the further trials of practice under the Dangerous Drugs Acts, Pharmacy and Poisons Act, Pharmacy and Medicines Act, Therapeutic Substances Act, National Health Insurance and National Health Service Acts, sundry Finance and Shops Acts, etc., etc. —EDITOR].



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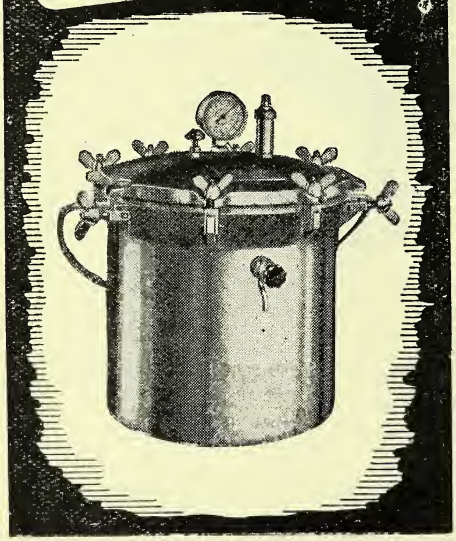

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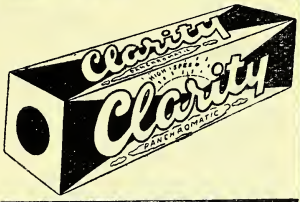

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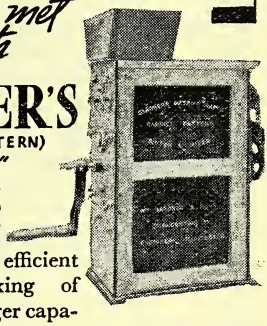

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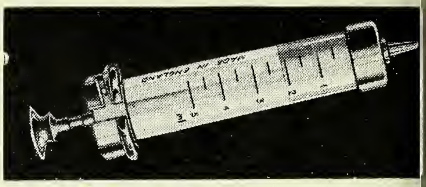

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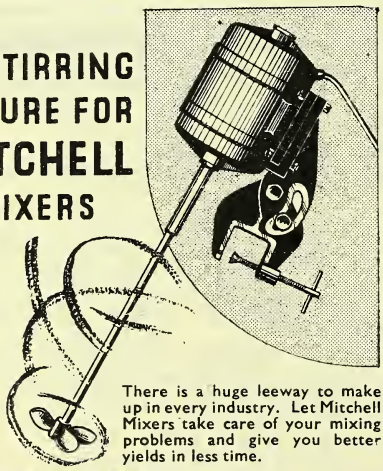

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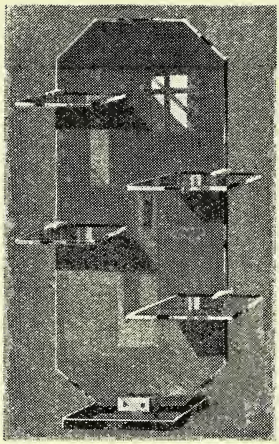

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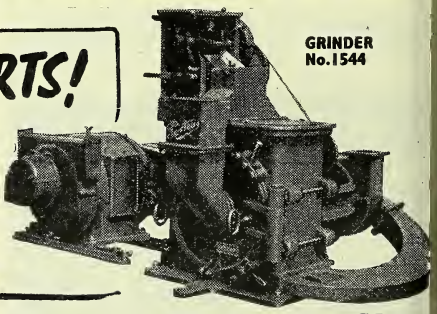

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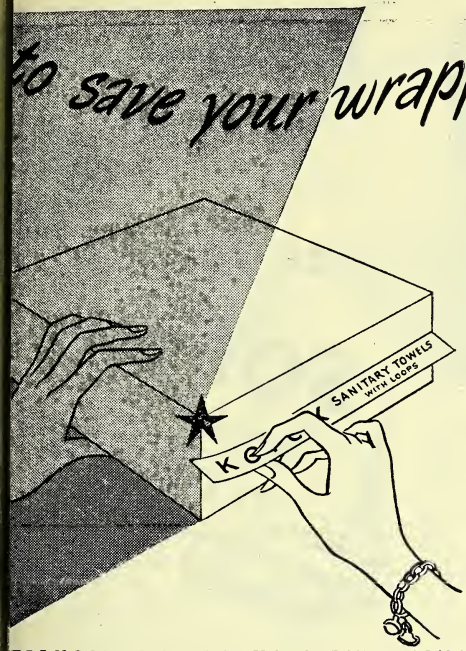

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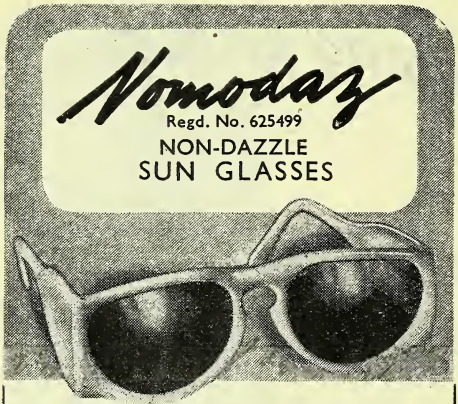

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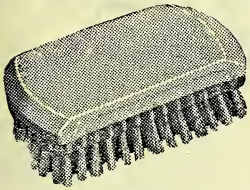

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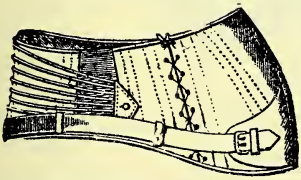

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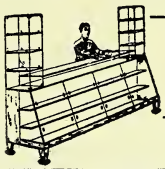

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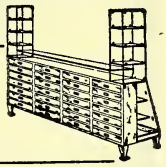

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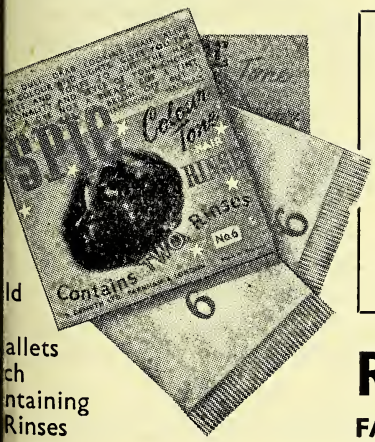

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Per Show-Carton containing 3 dozen wallets (2 rinses per wallet) 18/- plus 18/- Purchase Tax, retailing at 1/3d. (including tax) per wallet of 2 rinses. Original orders will be supplied in Show-Cartons containing six wallets of each of six shades of rinse. Future orders, in multiples of three dozen wallets, can be supplied in any desired quantities of each shade.

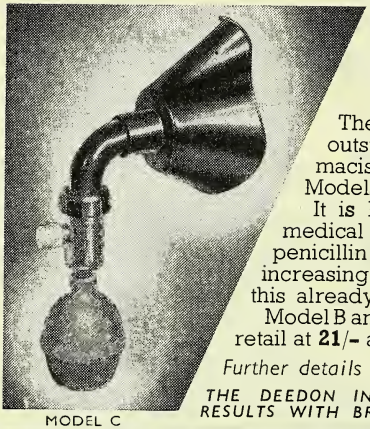
SPECIAL BONUS OFFER

With every 2 cartons of 3 dozen wallets, we will give a Show-Carton of 3 dozen Spic Soapless Shampoos free (charging only P.T.).

R. DEMUTH LTD.

FARNHAM, SURREY & LONDON, N.W.6

The DEEDON *All-plastic* INHALER



MODEL C

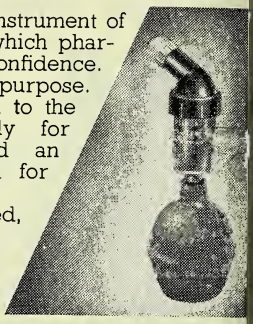
The Deedon Inhaler is an instrument of outstanding merit and one which pharmacists can recommend with confidence. Models are available for every purpose. It is being widely advertised to the medical profession, particularly for penicillin aerosol therapy and an increasing demand is anticipated for this already popular inhaler.

Model B and Model C, here illustrated, retail at **21/-** and **27/-** respectively.

Further details will be sent on request.

THE DEEDON INHALER GIVES EXCELLENT RESULTS WITH BROVON ASTHMA INHALANT

MODEL B



MOORE MEDICINAL PRODUCTS LTD

ABERDEEN LONDON OFFICE: 64 GLOUCESTER PLACE, W.1. LONDON
WELBECK 5718/9

LET **Sorbo** REGD TRADE MARK THE ORIGINAL SPONGE RUBBER

HELP YOUR SALES

BATH MATS
COMPLEXION GLOVES
SPONGES ETC.

SORBO LTD · WOKING · SURREY
Phone: Woking 966. Grams: Sorbo, Woking

Important Announcement

An established manufacturing concern in Northern India with existing production plant and distribution channels is open to consider the manufacture, packaging and marketing of pharmaceutical chemicals and allied commodities. Excellent coverage in India and adjacent countries. Replies in strict confidence to Box No. 4/219.

Tintex

THE WORLD'S LARGEST-SELLING **HOME DYE**

CHEM STS' AGENTS :—
Thos. Christy & Co., Ltd.
Farnham, Surrey

tinuous and Steadily Advertised Goods
R DESTROYING RATS AND MICE

DANYSZ VIRUS

ail Price (Protected) Net Wholesale Price
s for Rats and Mice, single tube, 2/- 15/- per doz.
3 tubes, 5/-
s for Mice only single tubes, 1/6 9/- „
3 tubes, 3/-
e-expired tubes returned to us postage paid will be exchanged free of charge.

Danysz Virus in Liquid Form

Retail Price	Wholesale Price
Bottles 6/- each	4/6 each
„ 4/6 „	3/9 each

HALLER'S EXTRACT OF SQUILL and DANZO RAT KILLER

count off Retail Prices 25 p.c. Monthly Account, or 33½ p.c. Cash with Order.

	Retail	Monthly A/c	Cash with Order
ll tins.	10/-	7/6	6/8
„	18/-	13/6	12/-
„	80/-	60/-	53/4

DANZO BEETLE POWDER

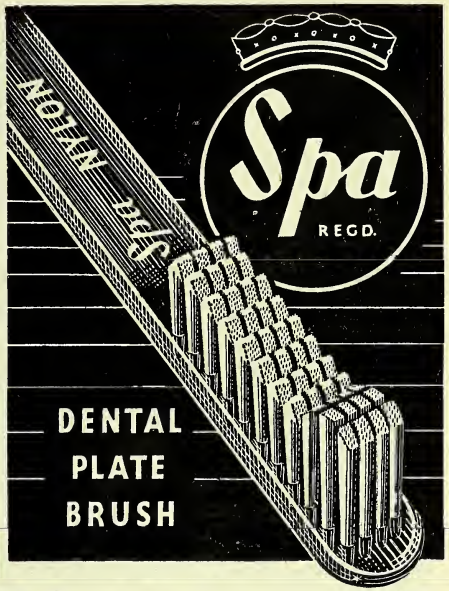
For destroying Blackbeetles, Cockroaches, Crickets, etc.

ail Prices (Protected)	Wholesale Prices
artons 9d. each	6/9 per doz.
„ 1/6 „	13/6 „
„ 3/- „	27/- „

nzo Beetle Powder will not deteriorate by keeping.

CARRIAGE PAID ON ALL ORDERS

To be obtained from
HALLER LABORATORIES, LTD,
325 Borough High Street, LONDON, S.E.1
egrams : "Virudana, Sedist, London." Telegrams : Hop 271



designed specially for the job

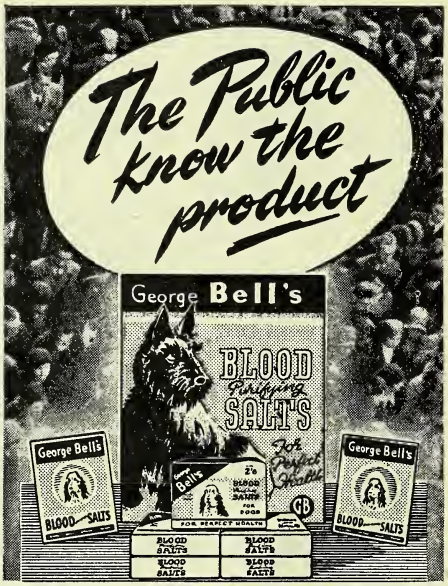
A Dental Plate Brush has a double job to do — it must clean every part of the plate as well as the dentures. No ordinary brush — and no adapted tooth-brush — can do this.

The SPA Dental Plate Brush has been specially designed for its particular job. The handle is correctly shaped. The bristles are of the right hardness, length and spacing.

The price is right. The PROFIT is right. It's a P.A.T.A. line. *And* it's a quick seller.

Supplies now available

John Freeman & Co. Ltd.,
Spa Brush Works, Chesham, Bucks.



Remind them to buy by displaying

GEORGE BELL'S

Blood Salts

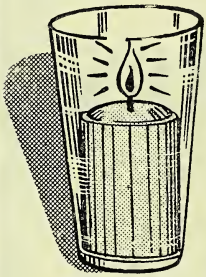
Give George Bell's Blood Salts, for dogs, window and counter display and link up with the extensive advertising campaign.

This will mean more sales and profits for you. The packs make good displays, but if you require further display material, please write :—

BELL & SONS, LTD.,
18, SILVERDALE WORKS,
LIVERPOOL, 13

S.C.P. 9

Lasts Record Time



Ideal for the Nu sery or Sickroo or for use in a emergency.

Size 2½" high, diameter. Bu approx. 50 hou Prices and terms request.

OTARK

LONG-BURNING NIGHT-LIGHT

50 HOURS

OTARK POLISH CO., LT
97 Duncombe Road, N.19 (*Archway* 24

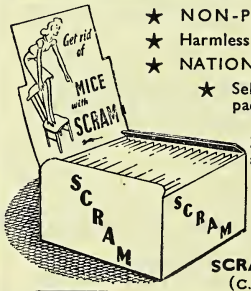
MICE · SCRAM · MICE · SCRAM · M

MICE

BRING CUSTOMERS FOR

SCRAM

THE CLEAN METHOD



★ NON-POISONOUS.
★ Harmless to children and
★ NATIONALLY ADVERT
★ Sells more than a packets a year.

3 doz. 1/- pack attractive di carton, 25/

Order from y wholesaler

SCRAM PRODUCTS
(C.D.) London, N.V

P.A.T.A.

HEN THEY ASK FOR DDT

HE ANSWER IS COOPER'S

ou're safe in selling Cooper's because (1) Cooper's nti-pest Products are scientifically formulated and orrectly processed, the result of over 100 years' xperience, (2) because Cooper's were the first ritish processors of DDT and sole wartime suppliers of DDT insect powders to the British armed orces . . . (3) because there's a Cooper product for very household pest and *each one does the job properly.*

Cooper's Household Anti-pest Products

COOPER'S FLYSPRAY
MOTH SPRAY · MOTH POWDER
BIN POWDER
HOUSEHOLD INSECTICIDE

Dog Products

PULVEX · SOPEX · KURMANGE

OOPER'S "WALLS THAT KILL FLIES" CAMPAIGN WILL DO IT AGAIN!

Once again "*Walls that kill flies*" is the theme of Cooper's National advertising — because the AMPLE DDT content in Cooper's Flyspray keeps sprayed surfaces fatal for 4-6 weeks to all flies alighting on them. Long-lasting insecticidal action, plus QUICK-KNOCKDOWN and positive kill, wins *and keeps* customers. One sale made ensures a trade !

WRITE FOR 1948 TRADE LIST. Limited quantities of literature and display material are available for Cooper stockists. Order now from your wholesaler or direct :—

COOPER, McDOUGALL & ROBERTSON LTD., BERKHAMSTED, HERTS.

PROMOL JUNIOR MOTH RINGS

NOW CONTAIN DEADLY DDT

(Geigy)

Twice as efficient — twice as saleable at 8 Rings for 4d.

Attractive red, white and blue display carton.

Enquiries invited.

PROMEDICO PRODUCTS LTD., 21/22 Turle Road, London, N.4

"BEAVERPUF"

We are now able to supply IMMEDIATELY

Send Enquiries to:
FRANK MOUSLEY
Wilderness Works
Derby Rd., London, S.W.14 Prospect 4547

KLEENKIL

DDT FLY & MOTH PAPERS 3

Samples and Prices from
THE KLEENKIL COMPANY
23 Manor Avenue, Northolt, Middx. *BYRon 29*

HARVEY'S

Horse Remedies

P.A.T.A. Protected Prices

Supplies can be obtained through all Wholesale House

HARVEY & CO. (DUBLIN) **LTD.,** DUBLI

A DELICATE SUBJECT — FOR DELICATE SKINS

The TOTTY-POT

Rubber Ringed for — Cushion Comfort

Trade Mark "Totty Pot" Patent-applied for

A NON-CORROSIVE ACID-PROO
HYGIENIC CHILD'S CHAMBE

Detachable ring, easily removed fo cleaning purposes

Made of Aluminium

ANODISED IN SOFT PASTEL SHADE

SOLE MANUFACTURERS
J. BILLIG & SONS LTD.,
ESTABLISHED 1899

BILTIN WORKS, FONTHILL Rd LONDON N.4.
TELEPHONE: ARCHWAY 2753 & 3858

Introducing "HILLY & BILLY".

THE PERPETUAL MOTION **DRINKING DUCKS**

THE GREATEST WINDOW ATTRACTION OF ALL TIME!

can now be supplied for display purposes only. Not for re-sale.

Just dip their heads and away they go

ALL GUARANTEED DRINKERS

11/7 each—23/2 pair

Send cash with order (or C.O.D. 2½% extra). Money refunded if not satisfied

FAIRWAY HOUSE (THE TOY HOUSE)

DEPT. 101 · 35 HILLSIDE · STONEBRIDGE · LONDON · N.W.10

TELEPHONE : WILLESDEN 4615

Who . . . me?

Yes, you, Sir. You've helped C.R.S to reach a weekly collection of nearly 1,200,000 empty containers, but to meet national requirements we need at least 250,000 more every week. ***That's five more empty containers from every trader on whom C.R.S calls, and we're counting on you, and thousands like you, for a bumper response.***

The return of empty containers is saving the nation thousands of tons of precious coal, timber, wood-pulp, metal and other essential raw materials . . . Remember that when the C.R.S van calls!

Container Recovery Service

S.P.D. LIMITED, UNILEVER HOUSE, BLACKFRIARS, LONDON, E.C.4

CRS 59A-683

An advance in

Asthma

medication

Respaton

TABLETS

Indication

Respaton Tablets are specially indicated for the speedy relief of Asthma, Bronchial Asthma, Bronchitis, Emphysema and cognate ailments.

Action

Respaton Tablets are : Antispasmodic, Antipyretic, Analgesic, Sedative.

Formula

Ephedrine Hydrochloride ...	$\frac{1}{4}$	*grain*
Ext. Bellad. Sicc. B.P. ...	$\frac{1}{10}$	,,
Dioxyamidopyrine	$\frac{1}{2}$	,,
Ipecac. Pulverat. B.P. ...	$\frac{1}{2}$	,,
Theobromine	$\frac{3}{8}$	,,
Calcium Lactate	$\frac{3}{8}$	,,
Lactose	$\frac{3}{8}$	,,

Respaton Tablets are now being introduced to the Medical Profession. Chemists would be well advised to lay in a small stock in anticipation of prescriptions.
In Bottles 25 tablets 4/4d.; 100 tablets 15/6d., inc. P.T. Usual trade terms.

MEDICAL SPECIFICS LTD.
West India House
Maryland Street, Liverpool, 1.

BEAR BRAND HONEY

noted for

Purity & Quality

As direct importers from all the main Honey-producing Countries of the World, we can supply Standard Grades of the finest Honey for all Manufacturing purposes.

L. GARVIN & CO. LTD
ISLEWORTH
MIDDLESEX

"Leda"

D·D·T

LIQUID SPRAY

Specially prepared for Household use

NON-INFLAMMABLE. NON-STAINING.
Ready for immediate use.
Full directions on each contalner.

Also in Powder Form. Samples and prices available to Wholesalers from Manufacturers.

LEDA CHEMICALS LTD
WHARF RD., PONDERS END, MIDDX.

Phone : HOWard 2231 (3 lines)

Sole Agents for N. Ireland: Whyte Reid & Mitchell, Ltd 61/63 Donegall Pass, Belfast.

Sole Agents for Scotland : Southern Mfg. Co. Ltd. 214 West Regent Street, Glasgow, C.2

Announcing

RYBAR

ALL PLASTIC

NHALER

th unbreakable SYPHON-TUBE

(Patent applied for)

RETAIL PRICE - - **18/6**

(MASK 5/6 EXTRA)

DUAL PURPOSE MODEL **27/6**

Subject to 33⅓% discount and bonus.
All orders carriage paid.

YBAR LABORATORIES LTD.

NKERTON KENT

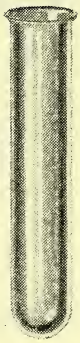
REGISTERED TRADE MARK

SAMCO

BRITISH MADE

FLAT AND ROUND BOTTOM GLASS TUBES

FOR HOME AND EXPORT TRADE



Due to the recent installation of additional machinery in our factories, we are pleased to announce that we can now offer quick deliveries of all sizes at competitive prices.

SPECIAL PRICES QUOTED FOR CONTRACT ORDERS

Your enquiries will have our prompt attention.

S. MURRAY & CO. LTD.

Actual Manufacturers

45 ST. PANCRAS WAY, N.W.1

Telephones:
Euston 1757 & 5514

Telegrams:
Depressors Norwest London

BACKACHE ?

STILL THE BEST

Trade: 20/- a doz., plus 6/8 Tax — 26/8 doz.

Minimum Retail: 3/1 each, Purchase Tax included

MANUFACTURED IN ENGLAND BY

Johnson & Johnson (GT. BRITAIN) LTD SLOUGH & GARGRAVE

FREE BONUS!

GRIPTIGHT FEEDERS

TO WHOLESALERS

From **JULY 15** to **SEPTEMBER 30, 1948**, we will send free of charge, 3 doz. 4 oz. Two Hole Feeders with every 1 gross 8 oz. Two Hole Feeders supplied.

TO RETAILERS

Ask your Wholesaler for this Free Bonus.

LEWIS WOOLF LIMITED

144 OAKFIELD ROAD, BIRMINGHAM, 29

EN·ESS

SOFTER *than* SILK

SANITARY TOWELS

• • •

All Enquiries to:

MORRISONS & RALPH LTD.

ENESS FACTORY, GLEN STREET, BARRHEAD, RENFREWSHIRE

IBCOL *gives yo*
BIGGEST *advertisin*
coverage!

★ **The STATISTICAL REVIEW shows that during the period of the last nine months — from August 1947 to April 1948 — IBCOL was the biggest advertiser in the field of disinfectants and germicides. IBCOL backs up your own window and counter displays with National and Local press advertising, posters on Hoardings and Buses, display cards on Tubes, etc.**

That's why it pays display IBCO product. They sell on sight!

IBBETSON · STEVENAGE · HERTS

"ZEMS"

HERBAL LICORICE TABLETS

THE BEST MEDICATED TABLETS FOR COUGHS, COLDS, ASTHMA, BRONCHITIS, ETC.

CHEMISTS' CF FORMULA

Supplies may be obtained from C.F. Wholesale Houses

ZEMS LTD.

718-724 Seven Sisters Road, London, N.15

'ASPRO' DISPLAYS MAKE CONTACT

with a huge public

HERE'S THE REASON: 'ASPRO' has the largest sale—has **more** users—than any single medicinal line of its kind in the world. So that an 'ASPRO' display speaks directly to a huge public—and brings them in; 9 out of 10 of them stay to make other purchases as well. Countless chemists have found to their profit that displaying 'ASPRO' pumps new life into business when the general turnover is "limp." 14 days' window display qualifies you for bonus.

BUYING ON BONUS TERMS MEANS GREATLY INCREASED PROFITS

How much this means the following figures will show: on the very modest minimum order of 3 doz. 27's and 6 doz 5's (which yields a profit of 18s. 4d.), you receive stock **to the value of 10s. 6d.** as a free bonus. This **increases** your total profit over 50 per cent. Larger bonus *pro rata* on larger orders.

Made by ASPRO LTD., Slough, Bucks P.A.T.A.

Send for this Summer Plastic in Light Mauve and Green

PAPER BAGS ARE WORTH WATCHING

At present, we have good stocks of 2 oz. glazed transparent and 2 oz. white sulphite paper bags, so why not **ORDER WHILE YOU ARE SURE OF SUPPLIES?**

FOR

PATENTS

DRESSINGS

DANGEROUS DRUGS

PILLS & TABLETS

DRUGS & GALENICALS

ETHICAL PROPRIETARI

SMITH & HIL

(Chemists Ltd.)

SIDNEY ST., SHEFFIELD,

Phone: 24321

GLYCERYL MONOSTEARATI

Guaranteed Food and Drugs Qua

REGULAR SUPPLIES AVAILAB

Samples and quotations upon req

The Faylene Manufacturing Comp
15 Queens Court, Lower Briggate, Lee
Telephone 22594

KOMPO FOR COLDS REGD.

Manufactured only by

J. F. WHITE & CO., LTD.

Lovington Laboratory, Benson Street, L

New Va£ues . . .

In response to the national call for a lowering of living costs, we are pleased to announce a reduction in price of all our well-known lines, to be effective on and after May 3rd, 1948. We have always aimed to supply the finest possible product at a price which is competitive, and in making this announcement of our reduced prices, we would stress that the quality of St. Andrew Mills productions remains as high as ever. Amended price lists showing purchase tax and profit margins will be sent willingly on request.

St. Andrew Mills reduce prices

ANDREX 1/0½D. PER ROLL	ANDROL 1/1½D. PER ROLL	STANEX 1/- PER ROLL
MARVO 9½D. PER ROLL	SAMARITAN 8D. PER ROLL	ANDREX PAPER KITCHEN TOWELS 1/4D. PER ROLL

★ *All above prices are retail and include purchase tax.*

WHOLESALE ONLY

ST. ANDREW MILLS LTD.

WALTHAMSTOW, E.17 *Tel : Larkswood* 1014·5·6

We regret that demands still exceed available supplies

"You will find Musterole really *inexpensive*"

Yes, inexpensive because Musterole lasts longer, does more good. Read the fine Musterole formula — you'll agree that it *should* cost a little more. The best products always do. Don't forget — recommend Musterole. Your customers will thank you for it.

Musterole sells at 3/2 per pot and *brings you 3/8 per doz. extra profit over normal quality vapour rubs.*

MUSTEROLE BRAND

MUSTARD OINTMENT

★ *All the comforting warmth of a mustard plaste — but easier to apply — you simply rub it in.*

Now there's – **FLIT**

FOR THE FARM

Quick sales extra profits!

GET

FLIT *Livestock Spray*

Kills and repels stable and horn flies . . .

The introduction of Flit Livestock spray coincides with the ever growing use of Flit in the destruction of harassing, nagging and poison carrying flies. In one gallon tins (160 ozs.) Trade 8/9d. Retail price 12/6d. Minimum order 3 tins carriage paid.

STEMCO LIMITED, 128 Albert St., CAMDEN TOWN, N.W.1

EMBRODEX

REGD. A COMPLETELY NON-STAINING AND QUICKLY ABSORBED PREPARATION OF ETHEREAL IODINE COMPOUNDS BRAND

Embrodex is a preparatio with unique penetration an intensified analgesic resolven action.

In Tubes at 1/10½d. and 3/1½ 1 lb. tins 13/8d.

Write for Terms

THE MEDICAL SUPPLY ASSN. LTI

167-173 Gray's Inn Road, London, W.C

Telephone: Terminus 5432 (7 line

P.A.T.A.

A GOOD SHOW

will bring in the customers!

echam Home Medicines act as a gnet, and bring a steady flow of ular business to your counter. For t reason it is sound business policy maintain displays of:—

EECHAM'S LUNG SYRUP
EECHAM'S PILLS
EECHAM'S POWDERS

lourful show materials are ilable on request to enable u to make attractive dis- ys of these popular, quick- ling lines, whilst consist- t Press and outdoor vertising provides a ong supporting link tween the customer d your premises.

ll enquiries should be addressed to:
EECHAMS PILLS LTD
ST. HELENS,
LANCASHIRE

for the COMMON COLD . . .

P.A.T.A.

During the coming months, there are always colds about. For rapid and effective treatment, your customers will expect to obtain Serocalcin *from stock.* Please maintain a stock for this purpose.

Serocalcin is packed in 20's and 60's

★

Pharmacists are reminded that the sole selling agents for Serocalcin in the United Kingdom are J. C. ENO Ltd., Watford, Herts. (Watford 7761) to whom all orders and enquiries should be sent.

SEROCALCIN

FOR THE PREVENTION AND TREATMENT OF COLDS

HARWOODS LABORATORIES LTD · WATFORD · HER

Printed by The Haycock Press, Ltd., 106-140 Neate Street, Camberwell, S.E.5, and Published by the Proprietors, Morgan Brothers (Publishers), Limited, at 28 Essex Street, Strand, London, W.C.2.

The CHEMIST AND DRUGGIST SUPPLEMENT

This Supplement is inserted in every copy of The Chemist & Druggist

28 ESSEX STREET, LONDON, W.C.2.

JULY 31 1948

RRIDGE & CO.

ESTABLISHED 1846

BRANCH OFFICES:
Norfolk House, Cannon Street
BIRMINGHAM 2
Phone: Midland 6547
77 High Street Shirley
SOUTHAMPTON
Phone: Southampton 71708

1. Northern Ireland. Very important Wholesale nd Retail business for disposal. Net Profit to Managing Proprietor over £5,000 a year. Prominently situate premises. Very valuable fixtures, ttings, plant and machinery, etc. Price required £15,000, s.a.v. Bankers reference with application.

2. London. Wholesale Drug business for sale. pecialities. Net Profit under management last ear over £3,500. Security of tenure. Valuable tocks. Travellers. Increasing business. Total urchase price including Valuable stock approximately £12,000.

3. South Africa. We have four substantial businesses for sale in the Durban district, the purhase prices being £5,000, £5,500, £9,100 and £4,250 respectively. Separate Vendors. Full particulars upon application with introduction to outh African Agent. Wholesale Houses may give purchasers financial assistance.

184 STRAND, LONDON, W.C.2
Telephone: TEMPLE BAR 9212/3—6340
Telegrams: Orridgchem, Estrand, London

4. South Coast. Two Drug Stores for sale, separately or together. Well situate in Hove and Worthing. Small living accommodation available at Hove. Scope for Pharmacists. Substantial businesses. Vendor having acquired other interests will refuse no reasonable offers. Substantial turnovers. Main road position.

5. North of England. Wholesale Distributing business, turnover about £600 per week. Ill-health reason for sale. Valuable Lease. Travellers. Total price to include very substantial stock about £15,000. Details upon receipt of Bankers reference. Other similar businesses for disposal in Midlands, etc.

6. Wiltshire. Important town. Very well established business taking between £90-£100 p.w. Good Dispensing. Net Profits estimated at £1,200 per annum. Heavy stock. Fixtures estimated at £600. New Lease. Price required for the Goodwill £2,000. Further details upon application.

7. Cheshire. Ill-health necessitates disposal of business returning approximately £90 p.w. plus Panel. Total purchase price about £2,700. Further details upon request.

8. Hampshire. Well-established business. Turnover last year approached £9,000. Net Profit to managing proprietor over £1,300 per annum. Long Lease at £185 per annum. INCREASING TURNOVER. Stock, Fixtures and Fittings approach £2,500. Private house may be available. Full details upon request.

or SALES, PURCHASES, VALUATIONS, STOCKTAKING and ASSESSMENTS

BUSINESSES FOR DISPOSAL

for 36 words or less, 3d. for every additional word

OLD-ESTABLISHED BUSINESS in famous Essex age of 1,800, serving large farming area. Nearest emist 7 miles. T.O., year ending April 30, ,000 approx. Mixed family trade. Good veteriry and agricultural connection. Profitable & P. and horticultural sales. Minimum estited N.H.S. £6 per week. Nine-roomed house, ctric, bath, nice garden with fruit trees, outuses, garage, separate house entrance. Nicely ed, well-stocked shop, brand new well-equipped pensary. Stock approx. £1,500. Price, freehold, ,000. Box 4/255.

IGHTON. Chemists business for sale owing to ff difficulties. Turnover last year £3,978. No ar opposition. Stock £900. Offers invited, or uld consider partnership with view to succession. rite, Ridgeways, Woodland Drive, Hove.

IALL but well-known proprietary shampoo busiss for sale. Stock, inc. 4-5 tons pure soap powr, inner and outer envelopes, 3 cwt. Barron wder sifter mixer, etc. etc., at net cost, about ,000. Good soap quota. Business neglected of e as owner has several other interests. £2,000 . for quick sale. Premises not available. Box 265.

TRADE MARKS

THE TRADE MARK NO. 534,000 consisting of a label on which the main features are the signature "L. Midy" and the word "Piperazine" and registered in respect of pharmaceutical preparations for human use containing piperazine was assigned on the 31st. December, 1936, by Midy Freres, of 4 Rue du Colonel Moll, Paris, and 140 Faubourg St. Honore, Paris, France, to Marcel Midy, of 116 Avenue des Champs Elysees, Paris, France without the goodwill of the business for which it was then in use.

PARTNERSHIPS

PARTNER WANTED (qualified). Excellent shop in E. London. Tremendous scope for increase. Box 4/211.

SUFFOLK. Partnership offered in old-established soap and cosmetic business with turnover of £12,820 and net profits of £1,986 (audited accounts). Investment, £2,000. Commercial Development Co. (Sevenoaks), Ltd., 199 London Rd., Sevenoaks, Kent.

STOCKTAKING FOR INCOME TAX OR SALE VALUATIONS

In addition to the normal chemist's stocktaking, we specialise in the valuation of—

Photographic Stocks & Equipment
Optical Stocks & Equipment
Fixtures & Fittings

and all items relating to Wholesale or Retail Chemist's Businesses.

DETAILED INVENTORIES SUPPLIED IF REQUIRED

Chemist's own Stock sheets Priced.

Results Available SEVEN DAYS after Valuation

Scale terms on application to—

BARNES & JARRATT (Licensed Appraisers)
4 CHARLWOOD ST., VICTORIA, S.W.1
Telephone : VICTORIA 5686

Vacancies advertised are restricted to persons or employments excepted from the provisions of the Control of Engagements Order, 1947.

SITUATIONS OPEN

8/6 for 36 words or less, 3d. for every additional word

RETAIL (HOME)

A SMALL limited company in the London area have a vacancy for an experienced pharmacist to take control of a branch situated in the Middlesex area. The salary range would be between £450 and £500 per annum and there is attractive accommodation and a nice garden. Applications in first instance to Managing Director, Box 4/224.

A VACANCY exists at Allen & Hanburys, Ltd., 7 Vere Street, for a pharmacist who is prepared to do evening duty. Living accommodation and canteen available. Would suit pharmacist contemplating medical studies. Apply Manager, 7 Vere St., London, W.1.

ASSISTANT, qualified, either sex, required. 4½ day week only; Thursday afternoons, Saturday and Sunday free. Full week's salary paid. Apply Tower Pharmacy, Ltd., 57 Tower Bridge Road, London, S.E.1. Hop. 2032.

BIRMINGHAM—Qualified and unqualified assistant required for counter and dispensing. Busy middle-class Pharmacy. Apply with usual particulars to: E. Tranmer, M.P.S., 42 High Street, Smethwick, Birmingham.

BOGNOR. Unqualified Male Assistant required by well-known chemists. Please apply giving full details to Box 4/251.

BRIGHTSIDE & CARBROOK Co-operative Chemists, Ltd., have vacancies for branch pharmacists, male or female. Permanent progressive positions. Good conditions and salary, superannuation scheme in operation. House accommodation provided. Apply, Superintendent Chemist, at the Registered Office, 32 Sycamore St., Sheffield, 1.

BOOTS THE CHEMISTS have vacancies in a num of districts for qualified assistants, male and fem Salary (male): Central London, £8 15s. £10 5s. Metropolitan district, £8 7s. 6d. £9 17s. 6d. Provinces, £8 to £9 10s. (Femal Central London, £8 5s. to £9 15s. Metropol district, £7 17s. 6d. to £9 7s. 6d. Provin £7 10s. to £9, according to age. Engagements on a permanent basis with good prospects eligibility for pension, life assurances, etc. Th are also a number of vacancies for unquali assistants fully trained in the business and inc ing those dispensers who have been released doctors, etc. Good remuneration with a view permanency. Pension scheme, etc. Applicat should be made to Retail Staff Department, Sta Street, Nottingham, stating age, experience, district required.

FIVE-DAY 40-HOUR WEEK. General shop du counter, display, etc., some dispensing if exp enced. £5 10s. weekly for active assistant. Dar Chemist-Optician, 70 Ripple Rd., Barking.

EASTBOURNE, wanted lady assistant, qualified unqualified, for good-class pharmacy, tempo or permanent, congenial post, easy hours. A with full particulars to Mills, Chemist, Ch St., Eastbourne.

EASTBOURNE. Unqualified male assistant for pensing. 25-30 years. Full details and salary quired to Geo. A. Harmer & Son, South Eastbourne.

GILLINGHAM CO-OPERATIVE CHEMISTS re the services of a qualified assist, male or fem for busy central pharmacy. Excellent prospects suitable person. Superannuation, pension, Applications with usual details to: Secretary, lingham Co-operative Chemists, Ltd., 142 H St., Gillingham, Kent.

LEWIS & BURROWS require assistants qual or unqualified pricing stockbooks. Tempor Apply 146 Holborn, E.C.1.

LINCOLN. Young qualified assistant, lady or ge man, to control modern dispensary. Commen salary, £400 per annum. Battles, Ltd., 294 H St., Lincoln.

NORTHANTS. Qualified assistant required for pensing, counter, etc., in middle-class family b ness. Short hours. Apply with full particu salary, etc., to Box 4/31.

ORRIDGE & CO., Employment Agency, 184 Str W.C.2, Temple Bar 9212/3 Branches at So ampton and Birmingham. Enquiries invited f all employers seeking staff. Many pharmacists unqualified assistants available for retail and wh sale. Representatives also requiring situati Reasonable terms. Write to 184 Strand, W.C.2 particulars.

PHARMACIST for West End. Hours 9-6, half Saturday, no Sunday duty. Please state experi and salary required. Box 4/238.

PHARMACIST required, able to take control busy good-class branch pharmacy. Wage, £8 Apply by letter stating age and experience Hartlepools Co-operative Chemists, Ltd., Stoc St., West Hartlepool.

PHARMACIST-MANAGER take charge bra North-west London. Apply Lewis & Burrows, L London.

POPLAR. Manager, qualified, required for pharmacy in Poplar. Good salary offered to e getic man with experience. Permancy with prospects. Apply Box 4/235.

QUALIFIED manager or manageress for s branch in North Staffordshire. Would suit n qualified person. Good wages and free living commodation over shop if required. Br Chemists Ltd., 27 Stoke Road, Stoke-on-Tren

QUALIFIED ASSISTANT required for country p macy. Young gentleman or lady, preferably sin Duties exclusively dispensing. A well sala congenial position for a suitable applicant. Pl reply in the first instance to Box 4/223.

LIFIED ASSISTANT required for counter and nsing in high-class pharmacy (T.S.A. Licence). remuneration. Permanency. Chave & Jack- Ltd., Hereford.

LIFIED CHEMISTS required for branches in ingham district. Write stating salary required ersonnel Department, Birmingham Co-opera- Society, Ltd., High Street, Birmingham, 4.

LIFIED LADY or gentleman required early in mber. Hours 9.30 to 6 p.m. No Sunday or duties. Good salary. Apply, W. T. Battrick mists), Ltd., 34-36 New Park Rd., Brixton S.W.2.

LIFIED MANAGER required for good-class ly dispensing business in residential area in bledon, Surrey. Permanent appointment; no accommodation. Good salary. Apply 4/233.

LIFIED MANAGER required, preferably with al qualification. Congenial post in old- blished pharmacy. — Whitfield, 113 West- ugh, Scarborough.

LIFIED MANAGER required for good-class fam- dispensing business in Streatham. Permanent intment; living accommodation available; good y. Apply Box 4/234.

THPORT. Qualified or unqualified assistant, r sex, required mainly for dispensing duties busy pharmacy. The position offers oppor- y for acquiring comprehensive experience or rmanent; congenial hours. Please apply, giving particulars in the first letter, to J. R. Cave, 52 Nevill St., Southport.

ERINTENDENT CHEMIST required, lady or leman, for light dispensing, no other duties. post is permanent and would suit elderly per- Accommodation available. South London. ly Box 4/274.

SEX, 7 miles from Eastbourne. Young lady ired for dispensing and counter in good-class ness. Handling best cosmetics, etc. Give full iculars, salary, etc., to Parkers, Ltd., 25 High Hailsham.

ROYAL ARSENAL Co-operative Chemists, Ltd., vacancies as pharmacy managers and quali- dispensers. Applications are invited from lified pharmacists, male or female, and particu- of salary and commission will be forwarded application. Permanent and progressive posi- s. Superannuation scheme in operation. Write particulars to the Staff Manager, 113 Powis Woolwich, S.E.18.

RQUAY. Manager required — should interest bitious Pharmacist desirous of obtaining posi- offering scope and opportunities. Permanency. ply with full details to Box 4/250.

O EXPERIENCED and active lady dispensers nted. Generous salary to right applicants. Ap- by letter stating experience. Expenses paid interview.—Francis & Co., Ltd., Chemists, exham, North Wales.

QUALIFIED for dispensing. Congenial post. Full ticulars to John Keall, Ltd., 6 Nugent Terrace, W.8.

CTORIA, S.W. Branch Manager required for ked-class pharmacy within 10 minutes of Vic- ia Station. Permanent appointment; good sal- Saturdays half day. Apply Box 4/237.

ANTED, full qualified chemist as departmental nager and buyer. Permanency. Annual trade ,150. Apply, giving full particulars and refer- es to the Secretary, Denaby Main Co-operative iety, Ltd., Doncaster Rd., Denaby Main, Nr. ncaster, Yorks.

ELL-ESTABLISHED Chemists require qualified y Pharmacist, also part-time Pharmacist. Ex- lent post offering scope and opportunities. Apply ing full details to Box 4/252.

EST END, London, Qualified assistant, lady or ntleman, required for West End type of busi- ss. Duties principally dispensing and to assist counter. Good salary. Apply Box 4/236.

OUNG PHARMACIST required with view to nership by easy terms. Accommodation could arranged. East Midlands. Box 4/162.

The Institute of Chemists-Opticians,
2 Clements Inn, Strand, W.C.2

For Syllabuses of the Institute's Examinations and all further information, write to the Hon. Secretary, J. Ross-Mansell, Ph.D., B.Sc.

LOCUMS WANTED

DERBYSHIRE. Qualified locum required, any fortnight in September, for pharmacy in small market town. Box 4/160.

QUALIFIED LOCUM required for a few weeks from August 9th. No half day or Sunday duty, must be able to take complete charge of branch. Please give full particulars to Goldthorpes, 10 Powis Street, Woolwich, S.E.18. Woolwich 0403.

WHOLESALE (OVERSEAS)

REQUIRED by chemical firm manufacturing and selling pharmaceutical and technical chemicals, manager for Indian business. Pharmaceutical or chemical qualifications, and experience of Indian market, desirable. Box 4/264.

WHOLESALE

A LEADING FIRM of Baby Food Manufacturers invite applications from experienced pharmaceutical representatives of good trade standing, between the age group 30-40, in connection with a vacancy covering London and Home Counties, resident in the London area. The appointment is of a permanent character carrying a good salary, pension scheme, and prospects for personal advancement. Box 4/268.

AN OPENING will soon be available for a salesman to cover South London for a high-class cosmetic house. Please apply in full, stating age, education and experience, in confidence. Box 4/262.

AN OPPORTUNITY occurs for a first-class representative with active connection among retail chemists, covering the whole area of Scotland, for the sale of a proprietary article to chemists. Commission only. Worth £500/£700 per annum. Apply giving full particulars of lines carried, etc. Box 4/254.

AN OPPORTUNITY occurs for a first-class Coater with experience in all types of plain and coloured work. To take charge of department in old-established London House. Write giving details of age, experience and salary required to Box 4/231.

ANALYTICAL CHEMIST required by London manufacturing chemists. Practical works experience of general routine analysis and alkaloidal assays of drugs, including opium, essential. 5-day week. Reply, giving particulars of experience, salary, etc., to Box 4/173.

AN ESTABLISHED firm of manufacturing chemists require representatives to cover the London area and Home Counties (Surrey, Sussex and Kent). Wide range of pharmaceutical preparations. Good existing connection will be handed over. Preference will be given to experienced men with live connection this area. Car owner essential. Salary and commission. Apply with full details, Box 4/189.

ASSISTANT with some pharmaceutical experience required for pill department of manufacturing chemists in London area. Apply with full particulars and salary required to Box 4/232.

ASSISTANT PHARMACIST (male 25-30) required to undertake technical supervision of manufacture and/or packing of ethical pharmaceuticals. Previous similar experience useful but not essential. Salary according to age, qualifications and experience. Write, giving full details (confidential) and quoting reference No. 1473 to the Personnel Officer, May & Baker, Ltd., Dagenham, Essex.

EVANS MEDICAL SUPPLIES, LTD., require several experienced Drug Counter-hands for their London House. Apply Staff Manager, 50 Bartholomew Close, E.C.1.

EXPERIENCED Representatives in several areas required to carry additional repeating lines. Good connection chemists essential. State area covered and frequency of calls. All districts South East England except Central London. Box 4/246.

EXPERIENCED REPRESENTATIVE required for East Lancashire by old-established toilet soap and perfumery house. Applicants should reside on the territory and have a knowledge of the trade. Please give age and full particulars of experience covering selling record for past 10 years. Box 4/192.

EXPERIENCED REPRESENTATIVE wanted for Birmingham area by manufacturers of surgical dressings, sanitary towels and druggists' sundries to call on chemists (and on drapers for sanitary towels only); connection an advantage; salary, commission and expenses. Box 4/193.

FIRST-CLASS Representatives required by large firm manufacturing branded line of Hypodermic Syringes, to call on hospitals, institutions, wholesalers, etc., in the various regions recently set up by the Ministry of Health. M.P.S. qualifications preferred but not essential. Salary, commission, expenses. Permanency. Apply Box PP. 3138, W. H. Smith & Son, Ltd., Manchester, 3.

INTERNATIONALLY KNOWN Toilet Brush Manufacturers require representation in North of England and North Wales. Own car essential. First-class contacts with all outlets for this type of product necesssary. Apply giving fullest particulars to Box 4/271.

MEDICAL REPRESENTATIVE required for South Wales. Pharmaceutical, medical qualification or training essential. Send full particulars: William R. Warner & Co., Ltd., Power Rd., London, W.4.

OLD-ESTABLISHED FIRM of wholesale and manufacturing chemists require a representative for Yorkshire and the Midlands. The applicant must have experience in selling pharmaceutical preparations and galenicals, etc., to doctors and retail chemists, and must be a car owner. Only gentlemen who have an excellent connection with retail chemists should apply for this position, which carries salary, commission, expenses and car allowance. Box 4/201.

PHARMACIST required for old-established London wholesale druggist. Good salary. Light duties. Temporary or full-time engagement. Write Box 341, c/o George Murray (Advertising), Ltd., 184 Strand, London, W.C.2.

PROGRESSIVE MANUFACTURERS of pharmaceutical products in popular demand require representatives or sole agents with existing connections capable of developing following territories: 1, Kent, Surrey, Sussex, Hants. 2, West Country. 3, Scotland. 4, Eastern Counties. Interviews will only be arranged with men of outstanding ability and long experience who can supply proof of successful selling to retail and wholesale chemists, Co-ops. and stores. Preference to car owners. The positions are permanent and offer fine prospects to the right men. Apply fully, in confidence, including exact territory, age, frequency of calls, etc. Box 4/259.

PROGRESSIVE POSITIONS are vacant on representative staff of nationally known manufacturing chemists. Successful candidates, who have had experience in retail pharmacy, will be appointed to the following territories, on which they must reside: (1) Hants, Dorset and Berks; (2) Derby and S. Yorks. Apply in confidence giving full particulars of experience to date. Box 4/267.

QUALIFIED ANALYST, experienced in control of processed pharmaceuticals, required for factory in Edinburgh area, age 25-30. Salary in accordance with qualifications and experience. Applications in writing, stating age and qualifications, to Box No. 597, c/o Dawson's, 28 Craven St., W.C.2.

PUBLICITY. Copywriter required for ethical medi cal, veterinary and pharmaceutical advertisin material. Previous publicity and sales experienc useful but not essential provided there is a genuin flair for copywriting. Pharmacist with some ex perience as a medical representative would be par ticularly suitable. Initial salary £500-£600 accord ing to qualifications and experience. Apply init ally in writing, quoting reference No. 1651 to th Personnel Office, May & Baker, Ltd., Dagenham Essex.

REPRESENTATIVE required on high commissio basis, 20 per cent. advertised lines, in Lanc Yorkshire, Warwickshire, Derbyshire, Notts, Linc Leicester, Cheshire, N. Ireland, London and S.W England. Box 4/260.

REPRESENTATIVE required to sell baby powde and cosmetics on a commission basis for Yorkshir and Lancashire. No objection to other lines bein handled. Box 4/216.

REPRESENTATIVE over 40 with established co nection in Kent and Sussex required by Wholesal Distributors for Surgical Dressings, Proprietari and Sundries. Car owner. Salary £350-£400 p.a plus expenses and commission. Existing conne tion handed over. Please send full particulars t Sales Director, Box 4/244.

REPRESENTATIVES required for Midlands, Hom Counties, Lancashire, Yorkshire, Eastern Countie S.W. England and Wales. Nationally advertise product. Sound connection chemists essential. Ca owners preferred. Only first-class applicants co sidered. Salary, commission, expenses. Full part culars. Write Box 539 Arthur S. Dixon, Ltd., 2 High Holborn, W.C.1.

REQUIRED by established company marketing to let preparations, two representatives, Yorkshi and Northern Counties; London, north of Thame Age 25-35. Training given. Good prospects. App Sales Manager, Box 4/266.

REQUIRED by chemical firm manufacturing ar selling pharmaceutical and technical chemical man, 30 to 40, with wide experience export tra and able to visit overseas markets. Box 4/263.

SALESMAN/REPRESENTATIVE to visit doctors, ch mists, hospitals; ethical products; car owner pr ferred; resident on territory. (a) Midlands. (Yorkshire. (c) Scotland. Box 4/144.

TABLET-MAKER, experienced in all branches tablet production, required by well-known co pany N.W. London area. Write, stating age, e perience and salary required, to Box 4/212.

UNQUALIFIED ASSISTANT under 30 with good r tail experience required for South London whol sale house. 44-hour week, Saturday half da Commence £6 10s. weekly. Good prospects. B 4/241.

WE REQUIRE an energetic young man to call chemists and stores to sell introduced cosmeti Area: Beds, Suffolk, Norfolk, Cambs only. Re Box 4/256.

WORKS CHEMIST required for executive positi with London firm of manufacturing chemis Applicants must be experienced in galenical man facture and the supervision of poison and D.D. lines and be capable of carrying out assay a control of products. Excellent opportunity for t right man. Please apply in own handwriting, sta ing age, qualifications, experience, and salary quired to Box 4/217.

SITUATIONS WANTED

3/- for 18 words or less, 1d. for every additional wo

RETAIL (HOME)

ASSISTANT, young, unqualified, 5 years' count and dispensing experience, seeks position Tu bridge Wells area. Highest references, etc. B 4/276.

PENSER, Hall, wide experience, seeks morning k East London chemist, institute or doctor. 4/168.

CKTAKING, quiet and efficient workmanship, 30 years' practical experience. Personal super- n. C. W. Playfoot, 8 Aylward Rd., Merton S.W.20. Tel. Liberty 4104.

QUALIFIED, long all-round experience, reliable, teous; desires post Sussex, Surrey, or Middle- Accommodation desirable. Could consider ncial interest. "Business" 4/277.

QUALIFIED LADY with 20 years' experience igh-class pharmacy and toilets, buying and ad- istrative work, offers her services where keen rest and hard work is appreciated. Present y £600 per annum. Box 4/249.

LOCUMS SEEKING ENGAGEMENTS

PENSER-SECRETARY, hospital and doctor's, has e dates August/September. Kathleen Roynon, Maryland Road. London, N.22. Box 1320.

WHOLESALE

ALES MANAGER requires position. 15 years' rience. First-class knowledge of proprietaries rubber trade. Widely travelled and linguist. llent connection with leading wholesale buyers. se apply Box 4/220.

HUSIASTIC young man (19½), 4½ years' ex- ence retail, seeks position with reputable firm epresentative for N. Ireland. Salary, commis- and expenses. Commence September. Box

ES MANAGER seeks progressive position with ufacturers or first-class sundries house. At pre- engaged with full control of large outside with successful turnover. All-round experi- in distribution and sales promotion. Number ears comprehensive experience of the pharma- ical trade, wholesale and retail. Box 4/247.

RETARY/SHORTHAND-TYPIST, fully experi- d, keen, work own initiative, past 6 years maceutical and medical, desires responsible ion with Works, Sales or Production Manager, milar. Box 4/275.

LET MAKER, 25 years' experience granulating, pressing single and rotary machines, coating. ngaged. References. Box 4/243.

APPOINTMENTS

ASHFORD HOSPITAL, ASHFORD, MIDDLESEX

EGISTERED ASSISTANT PHARMACIST quired by 16th August. Similar experience ay determine commencing salary on inclu- e J.N.C. (Hospital Staff) Scale. £370 p.a. £15 to £450 p.a. Non-resident. Whole- ne. Established. Pensionable. Subject to edical examination and one month's notice. pplications, stating age, qualifications, ex- rience, with copies of up to three recent stimonials, to Medical Director by 7th August uoting E.752 CD).

FOREST GATE HOSPITAL

ASSISTANT PHARMACIST

pplications are invited from persons whose mes appear on the Statutory Register of armacists for the appointment of Assistant armacist at Forest Gate Hospital. The ties are whole-time; 39 hours per week and Sunday work. Salary in accordance with ational Joint Council Scale, viz.: £370 x 15 to a maximum of £450. Newly qualified armacists will be considered. Applications, ting age, qualifications and experience, to- ther with copies of three testimonials, to be t as soon as possible to the Secretary of e Management Committee, West Ham roup 9), Queen Mary's Hospital for the st End, Stratford, London, E.15.

JESSOP HOSPITAL FOR WOMEN, SHEFFIELD

ASSISTANT PHARMACIST (female) required immediately. Salary in accordance with J.N.C. Scale including lunch and tea when on duty and overalls. Superannuation Scheme in force. Applications with full particulars to the Superintendent and Secretary, Jessop Hospital for Women, Leavygreave Rd., Sheffield, 3.

METROPOLITAN HOSPITAL

KINGSLAND ROAD, LONDON, E.8.
ASSISTANT PHARMACIST REQUIRED. Salary in accordance with J.N.C. Scale, plus lunch and tea. Federated Superannuation Scheme in force. Hours 9-5 p.m. No Sunday duty. Hospital experience preferred, but not essential. Applications, giving age, experience and references, should be sent to the House Governor.

MIDDLESEX COUNTY COUNCIL

ASSISTANT PHARMACIST required at HILLINGDON HOSPITAL, Nr. Uxbridge, Middlesex. J.N.C. (Hosp. Staffs) scale £370-£450 p.a. inclusive. Similar experience may determine commencing salary. Established, pensionable, subject to medical examination. Recently qualified pharmacists considered. Application, stating age, qualifications, experience, enclosing copies of up to three recent testimonials to MEDICAL DIRECTOR, immediately, quoting D.444, CD. No forms. (Male candidates to state position with regard to Military Service.)

MIDDLESEX COUNTY COUNCIL

REGISTERED ASSISTANT PHARMACIST for NORTH MIDDLESEX COUNTY HOSPITAL, Edmonton, N.18. J.N.C. (Hospital Staffs) Scale. £370 to £450 inc. Similar experience may determine commencing salary. Whole time, established, pensionable, subject to medical examination. Applications, stating age, qualifications, experience, with copies of up to three recent testimonials, to MEDICAL DIRECTOR of Hospital immediately (quoting D.591 CD). No forms.

C. W. RADCLIFFE,
Clerk of the County Council.

MIDDLESEX COUNTY COUNCIL

REGISTERED ASSISTANT PHARMACIST required at HAREFIELD COUNTY HOSPITAL, Harefield, Middx. J.N.C. (Hosp. Staffs) salary £370-£430 p.a. inclusive. Similar experience may determine commencing salary. Recently qualified pharmacists eligible. Whole-time, unestablished, possible establishment, subject to medical examination. Application, stating age, qualifications, experience, with copies of up to 3 recent testimonials, to MEDICAL DIRECTOR at Hospital, IMMEDIATELY (quoting E.146 CD).

QUEEN MARY'S HOSPITAL FOR THE EAST END

Stratford, London, E.15

ASSISTANT PHARMACIST

Applications are invited from Registered Pharmacists for this appointment. Salary Scale £370 per annum with annual increases of £15 up to £450 per annum. Commencing salary within scale according to qualifications and experience. Applications, giving full particulars of age, qualifications and experience, together with copies of recent testimonials, should be sent as soon as possible to the undersigned.

J. S. STREET,
Deputy House Governor.

REDHILL COUNTY HOSPITAL

EDGWARE, MIDDLESEX.

REGISTERED ASSISTANT PHARMACIST required. J.N.C. (Hosp. Staffs) salary £370-£450 p.a. inclusive. Similar experience may determine commencing salary. Whole-time, established, pensionable, subject to medical examination. Application, stating age, qualifications, experience with copies of up to three recent testimonials, to Medical Director of Hospital immediately (quoting D.815 CD). No forms.

KING'S COLLEGE HOSPITAL, DENMARK HILL, S.E.5

ASSISTANT PHARMACIST (Apothecary Hall considered) required Salary and bonus in accordance with the J.N.C. Scale. Superannuation scheme in operation.

Also Locum Assistant Pharmacist. Salary 9 guineas per week.

Applications, with details of experience should be sent to the Pharmacist at the above address.

SOUTHEND-ON-SEA HOSPITAL GROUP

GENERAL HOSPITAL, ROCHFORD

LOCUM ASSISTANT PHARMACIST required immediately for three months. Non-resident. Salary £8 10s. per week. All possible assistance will be given in finding accommodation in the district, without obligation to the hospital. Apply in writing to the Medical Superintendent, General Hospital, Rochford, Essex, stating date when available.

JOHN WILLIAMS, Secretary.
Hospital Management Committee.
20 Warrior Square,
Southend-on-Sea.

AGENCIES

17/6 for 36 words or less, 4d. for every additional word

ACTIVE AGENTS required, selling famous line in sanitary towels to retail trade. Commission and expenses. Box 4/226.

AGENTS required for Glasgow and Lancashire areas to carry additional genuine speciality line. Only those with good connections with chemists considered. Box 3933, Eason's Advertising Service, Belfast.

AGENTS REQUIRED in all parts of the country to sell products on a commission basis to both retail and wholesale trade. Details as to present lines and connection to Box 4/139.

MANUFACTURERS of coupon-free liquid cleanser seek distribution agency of allied lines in north-east. Box 4/261.

INDIA

PHARMED Ltd., 232 Hornby Road, Bombay. Manufacturers, Distributors of Biologicals and Pharmaceuticals, under expert Swiss management with staff of highly experienced Scientists and Technicians. Up-to-date and important connections throughout the Indian Pharmaceutical market. Prepared to consider additional sole agencies from firms of repute.

AGENT with reliable connections Bombay area open to consider distribution of

PENICILLIN
STREPTOMYCIN
and
ALLIED PRODUCTS

Also for General Pharmaceutical Ethical Specialities including Proprietaries.

Qualified Medical Supervision and First Class connections assured. **Box No. 4/248**

OLD-ESTABLISHED manufacturers of toilet p parations require agents having established c nections with Chemists, Stores and Co-op. Sc eties. Territories: Wales, Shropshire, Herefo shire, Lancashire, Cheshire, Cumberland, We morland, Derby, Notts, Leicester, Lincoln, Sta Warwickshire, Northants, Worcester. Box 4/23

REPRESENTATIVE (CHEMIST) with establish coverage London, Surrey, Sussex, Kent, Ha (wholesale and retail chemists, stores), excell sales record, invites manufacturers' offers. Co mission only. Any kind of product considered. 4/258.

SCOTTISH AGENT with extremely valuable c nections amongst chemists and departmental sto has a vacancy for an additional line in pharmac tical, perfumery or cosmetics field, capable yielding a high turnover. Firms interested are vited to write to Box J.W.584, Erwoods, Ltd., Piccadilly, London, W.1.

WELL-KNOWN manufacturers require agents toilet preparations. Territories: Gloucester, ford, Bucks, Beds, Berks, Wilts, Somerset, Dors Devon, Cornwall, Norfolk, Suffolk, Essex, He Cambridgeshire. Must have established conn tions. Box 4/240.

AGENCIES WANTED

8/6 for 36 words or less, 3d. for every additional w

REPRESENTATIVE with soundly established c nection amongst wholesale and retail chemists Lancashire and Yorkshire, who has represen manufacturers of famous nationally advertised p duct for almost twenty years, seeks an additio representation on commission basis. Only fi class product considered. Highest references wo be furnished by present employer. Box 4/270

BUSINESS OPPORTUNITIES

17/6 for 36 words or less, 4d. for every additional w

BUSINESS MAN visiting America August, wo like to negotiate for reputable firms on a co mission or profit sharing basis. Would princi please arrange for a confidential appointment Box 4/253.

ORRIDGE & COMPANY

in extending their activities as
BUSINESS TRANSFER AGENTS, EMPLOYMENT AGENTS AND VALUERS
are establishing a business in the
UNION OF SOUTH AFRICA.

Enquiries from Pharmacists contemplating emi gration are invited. Mr. S. V. Brown, a Princi pal of the firm, is leaving for South Africa o 1st November, 1948, and will be pleased to ac cept any commissions or instructions.

South African Agent, Mr. R. W. Armstrong M.P.S., Box 286, Pietersmaritzburg, Natal.

OME TAX problems settled, books kept and ounts prepared. Fees for small traders approx. per month, dependent upon work involved. est Hill 3752, Tudor 5717, Larkswood 3181. Winsford Rd., S.E.6.

NUFACTURERS of nationally-advertised toilet ducts of 20 years' standing, with own sales nisation, would be interested in working ngement or amalgamation with manufacturing nists in similar position. Objects: Reducing heads, increasing profits. Highest references n and required. Principals only. Box 33, G. P. hes, Sicilian House, W.C.1.

NUFACTURING CHEMISTS have facilities and e available for the manufacture, packing and ing of domestic, toilet and industrial products. k Macowal, Ltd., 30 Loughborough St., 11. Tel.: Reliance 3435.

ING ORGANISATION with proven record es to contact actual manufacturers desiring in sales to the home market. Only first-class ucts with reasonable commission basis of pay- t considered. Results assured to right appli- s. Box 4/140.

RAIGHT TO THE MARK" service by Arrow ucts (Prepackers), Ltd. Experts in bottle ing, drying and sterilising. Prepackers, lers and folders, all trades. Powder, tablet, n or liquid filling Direct dispatch if re- ed. Inquiries: 13 St. Pauls Close, Hounslow. nslow 0378.

AR ALLOCATION together with Licence to ufacture sweets and chocolates. Licence trans- ble to any part of U.K. Plant available. ations per annum: 35 tons sugar, 33 cwts. butter. 30 cwts. nuts. Box 4/242.

TABLETS. A well-known food manufacturing company have available tableting capacity. Large quantities can be handled quickly and efficiently under hygienic conditions. Complete packaging can be arranged if required. Inquiries to Box W.731, Haddon's, Salisbury Sq., London, E.C.4.

WHOLESALE DISTRIBUTORS and agents with established coverage U.K., sound connections chemists, hairdressers, multiple stores, etc., and with a rapidly-developing export organisation, invite manufacturers' offers of sole agencies or special home territories. Box 4/145.

WHY NOT BE A SALESMAN with our proved postal training and guaranteed—appointments service which secured 1,000 salaried sales vacancies in 1947? Previous experience unnecessary with our 25 years' specialised experience to aid you. Send today for free details. Wallace Attwood College, Dept. 84, Attwood House, Finchley Rd., London, N.W.3.

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